

SERVICE MANUAL

Self Diagnosis Supported model AE-6BA CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-32XL90B	RM-942	FR	SCC-Q83S-A	KV-32XL90E	RM-942	ESP	SCC-Q81V-A

FD Trinitron



KV-32XL90



RM-942

TRINITRON® COLOR TV
SONY®

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

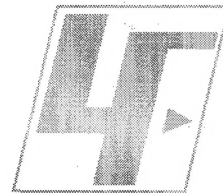
ATTENTION AUX COMPOSANTS RELATIFS À LA SECURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE Δ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÉCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

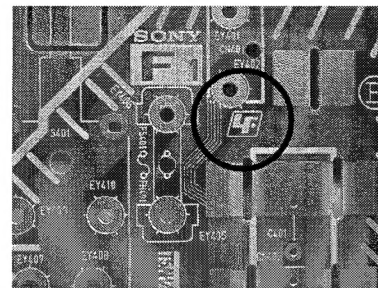
CAUTION

Lead Free Soldered Boards

The circuit boards listed below [Table 1] used in these models may have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. F1, H1 etc [see examples]. The servicing of these boards requires special precautions to be taken as outlined below.



example 1



example 2

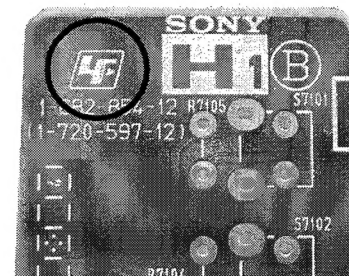


Table 1

Board	Function
A	Audio, Deflection, Tuner, Regulators, Interface
B	Backend, Scanrate, LVDS, A_ Interface
C	R, G, B Out
D	Deflection
D2	Smart Mode Deflection
F1	Power Switch/Fuse/SIRCS/Standby LED
G	Power Supply
H5	Front AV Input/Headphone and Control Switches
J	AV Scart I/O Switching and Sockets
VM	Velocity Modulation

It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints. Lead Free Solder is available under the following part numbers :

Partnumber	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

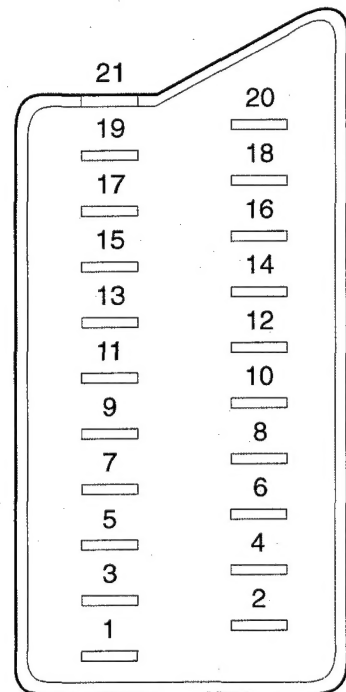
Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees centigrade. This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.

For more information on the use of Lead Free Solder, please refer to <http://www.sony-training.com>

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
B	B/G/H, D/K, I, L	GERMAN/NICAM Stereo	VHF : E2-E12, R1-R12, S01-S03, F02-F10, B-Q UHF : E21-E69, F21-F69, B21-B69, R21-R69 CABLE TV : S01-S20 HYPER : S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
E	B/G/H, D/K	GERMAN/NICAM Stereo	VHF : E2-E12, R1-R12, S01-S03 UHF : E21-E69, R21-R69 CABLE TV : S01-S20 HYPER : S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

Picture Tube	Flat Display FD Trinitron Approx 82 cm (32 inches) (Approx 76 cm picture measured diagonally)	Sound output	
		Right and Left speaker	2x20W (Music Power) 2x10W (RMS)
		Sub Woofer	1x30W (Music Power) 1x15W (RMS)
Input/Output Terminals [REAR]		General Specifications	
1: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Power Requirements	220 - 240V
		Power Consumption	135W
2: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals. (Monitor Out)	Dimensions	Approx 910 x 586 x 586mm
		Weight	Approx 64kg
3: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs of TV Video and Audio signals. (selectable)	Supplied Accessories	RM-942 Remote Commander (1) IEC designated R6 battery (2)
Phono Jacks	Output Connectors variable for Audio Signals	Other Features	100 Hz picture, Digital Plus, Teletext, NexTVview, Smartlink, TV system autodetection, PAP, Virtual Dolby, BBE Digital, ACI, Memory Stick, Auto Format
Input/Output Terminals [FRONT]		Remote Control System : Infrared Control	
Headphone jack	stereo mini jack	Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Audio inputs	phono jacks		
Video inputs	phono jacks		
S Video input	4 pin DIN		
Memory Stick Slot	Card slot		
Design and specifications are subject to change without notice.			

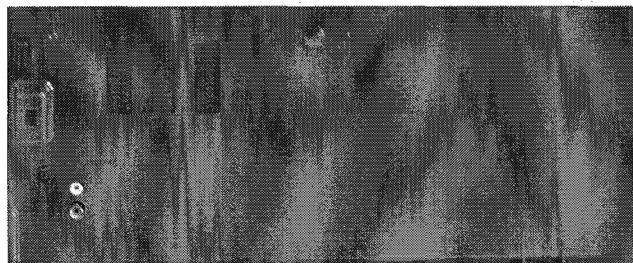
Item	Model Name	KV-32XL90B	KV-32XL90E
Pal Comb		OFF	OFF
PAP		ON	ON
RGB Priority		ON	ON
Woofer Box		ON	ON
Scart 1		ON	ON
Scart 2		ON	ON
Scart 3		ON	ON
Front in (4)		ON	ON
Projector		OFF	OFF
Norm B/G		ON	ON
Norm I		ON	OFF
Norm D/K		ON	ON
Norm AUS		OFF	OFF
Norm L		ON	OFF
Norm SAT		OFF	OFF
Norm M		OFF	OFF
Teletext		ON	ON
Nicam Stereo		ON	ON



Pin No	1	2	3	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
2	○	○	○	Audio input B (right)	Standard level : 0.5V rms Output impedance : More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedance : More than 10kohm*
7	○	●	●	Blue input	0.7 +/- 3dB, 75 ohms positive
8	○	○	○	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedance : More than 10K ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
16	○	○	○	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
17	○	○	○	Blanking input (Y's signal)	High state (1-3V) Low state (0-0.4V) Input impedance : 75 ohms
18	○	○	○	Ground (video output)	
19	○	○	○	Ground (video input)	
20	○	-	-	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	○	○	○	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	○	○	○	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	○	○	○	Common ground (plug, shield)	

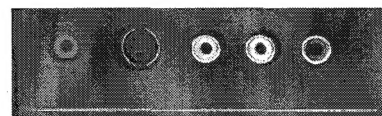
○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Rear Connection Panel



Front Connection Panel

S-Video socket



S Video socket pin configuration		
Pin No	Signal	Signal Level
1	Ground	-
2	Ground	-
3	Y (S signal) input	1V +/- 3dB 75ohm, positive Sync. 0.3V -3 +10dB
4	C (S signal) input	0.3V +/- 3dB 75ohm, positive Sync.

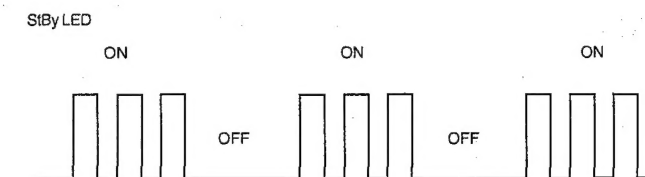
AE-6BA SELF DIAGNOSTIC SOFTWARE

The identification of errors within the AE-6BA chassis is triggered in one of two ways :- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1, non fatal errors are reported using this method. Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

Error Message	LED Code
No error	00
Reserved	01
OCF (Over Current Protection)	02
Over Voltage Protection	03
No Vertical Sync	04
IKR Error at power on	05
IIC bus clock and/or data lines low at power on	06
NVM no IIC bus acknowledge at power on	07
Horizontal Protection	08
Tuner no acknowledge at power on	09
Sound Processor Error	10
Reserved	11
Scanrate Error	12
DAC Error	13
Backend Error	14
Dynamic Convergence Error	15
PIP Error	16

Flash Timing Example : e.g. error number 3



How to enter into Table 2

- Turn on the main power switch of the TV set.
- Program Remote Commander for Operation in Service Mode. [See Page 21].
- Press 'AUX/VIDEO' 'AUX/VIDEO' > 'MENU' on the Remote Commander.
- Using the Remote Commander, Scroll to the 'Error' item using the down arrow key, then press the right arrow key.
- The following table will be displayed indicating the error count.

Table 2

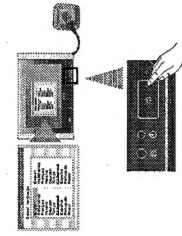
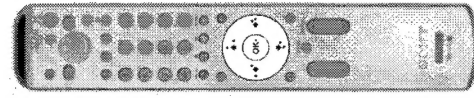
Error monitor		
WORKING TIME:	(Hours:Minutes)	82:33
Error counters:		
E02: OCP		0
E03: OVP		0
E04: NO V SYNC		0
E05: IKR		0
E06: IIC		0
E07: NVM		0
E08: H PROT		0
E09: TUNER		0
E10: SOUND		0
E11: 9 VOLTS		0
E12: SCANRATE		0
E13: 3DCOMB		0
E14: BACKEND		0
E15: DYNCON		0
E16: HIGH VOLTAGE		0
E17: AVSWITCH		0
E18: CHROMA DEC		0
E19: FRCA		0
E20: PJ ENG		0
E21: DAC		0
E24: SPEAKER PROT		0
E25: MEMORY STICK		0
Select: ▲ ▼	Previous Menu: ◀	

Note: To clear the error count data press '80' on the Remote commander.

The operating instructions mentioned here are partial abstracts from the 'Operating Instruction Manual'. The page numbers of the 'Operating Instruction Manual' remain as in the manual.

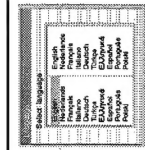
Switching on the TV and Automatically Tuning

The first time you switch on your TV, a sequence of menu screens appear on the TV enabling you to: 1) choose the language of the menu screen 2) Choose the country in which you are going to operate the TV, 3) adjust the picture slant, 4) check how to connect optional equipment to your TV, 5) search and store all available channels (TV Broadcast) and 6) change the order in which channels (TV Broadcast) appear on the screen. However, if you need to change any of these settings at a later date, you can do that by selecting the appropriate option in the **☰** (Set Up menu) or by pressing the Auto Start Up button **⏻** on the TV set.

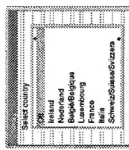


1 Connect the TV plug to the mains socket (220-240V AC, 50Hz). The first time that the TV set is connected, it is usually turned on. If the TV is off, press the **⏻** on/off button on the TV set to turn on the TV.
The first time you switch on the TV, a **Language** menu displays automatically on the TV screen.

2 Press the **⬆**, **⬇**, **⬅** or **➡** buttons on the remote control to select your language, then press the **OK** button to confirm your selection. From now on all the menus will appear in your chosen language.



3 The **Country** menu appears automatically. Press the **⬆** or **⬇** button to select the country in which you are using the TV. Press the **OK** button to confirm your selection.



4 If the country in which you want to use the TV set does not appear in the list, select "off", instead of a country.
• To avoid wrong teletext characters for Cyrillic languages we recommend selecting Russian country if your own country does not appear in the list.

5 Because of the earth's magnetism, the picture might slant. The **Picture Rotation** menu allows you to correct the picture slant, if it is necessary.

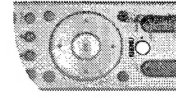


a) If it is not necessary, press **OK** to select. **Not necessary.**
b) If it is necessary, press **⬆** or **⬇** to select **Adjust now**, then press **OK** and correct any slant of the picture between -5 and +5 by pressing **⬆** or **⬇**. Finally, press **OK** to store.

continued...

Introducing and Using the Menu System

1 Your TV uses an On-Screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:



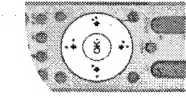
1 To switch on the menu screens:

Press the **MENU** button to switch the first level menu on.



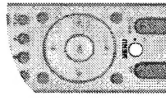
2 To navigate through the menus:

- To highlight and select the desired menu or option, press **⬆** or **⬇**.
- To enter the selected menu or option, press **OK** or **➡**.
- To return to the last menu or option, press **OK** or **⬆**.
- To alter the settings of your selected option, press **⬆** or **⬇** or **➡** or **⬆**.
- To confirm and store your selection, press **OK**.



3 To switch off the menu screens:

Press the **MENU** button to remove the menu from the screen.



SECTION 1 GENERAL

GB

5 A diagram will appear showing you how to connect a wide range of equipment to your TV set. Follow the instructions and finally press the **OK** button to remove the picture and continue the automatic process.



After the automatic tuning process has finished and the optional equipment has been connected at this stage, we recommend you follow the instructions explained on the section "Connection Guide" on page 15 to get the optimum settings related with the optional equipment.

6 The **Auto Tuning** menu appears on the screen. Press the **OK** button to select **Yes**.



7 The TV starts to automatically search and store all available broadcast channels for you.



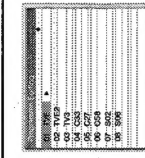
This procedure could take some minutes. Please be patient and do not press any buttons, otherwise automatic tuning will not be completed.

In some countries the TV Broadcaster installs the channels automatically (ACI system). In this case, the TV Broadcaster sends a menu in which you can select your city by pressing the **⬆** or **⬇** button and **OK** to store the channels.

If no channels were found during the auto tune process, a message appears automatically on the screen asking you to connect the aerial. Check the aerial connection (refer to page 7). Press the **OK** button to restart the auto tuning process.



8 After all available channels are captured and stored, the **Programme Sorting** menu automatically appears on the screen enabling you to change the order in which the channels are stored.

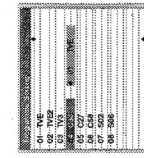


a) If you wish to keep the broadcast channels in the tuned order, go to step 9.

b) If you wish to store the channels in a different order:
1 Press the **⬆** or **⬇** button to select the programme number with the channel (TV Broadcast) you wish to move. Press the **➡** button.

2 Press the **⬆** or **⬇** button to select the new programme number position for your selected channel (TV Broadcast). Press the **OK** button to store.

3 Repeat steps b) 1 and b) 2 if you wish to change the order of the other channels.

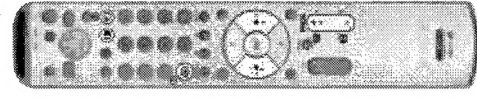


9 Press the **MENU** button to remove the menu from the screen

Your TV is now ready for use

PAP (PICTURE AND PICTURE)

1 PAP divides the screen into two to watch two pictures in format 4:3 simultaneously.



Switching PAP on and off

1 Press **⏻** to display PAP.

One of the screens will be framed to indicate that this is the active screen. It means that when you want to select the PAP source, you will be doing it in the active screen.

2 Press **⏻** again to remove PAP.



On the screen appears a banner guiding you how to operate PAP. This banner will disappear after some seconds but it always can be displayed again by pressing the **⏻** button.

Changing the active screen

This is only possible if Media Selector is set to TV.

To change the active screen (framed), press the **⬆** or **⬇** buttons.

Selecting PAP source

1 Selecting a TV channel:

Press the **⬆** button to select the left screen as the active screen. Next press the number buttons or **PROG +/-** to select a TV channel.

Video input signals can not be displayed on the left screen.

2 Selecting an input source:

Press the **⬆** button to select the right screen as the active screen. Next press repeatedly the **⏻** button to watch the input signal of a connected equipment onto the TV right screen. For more details on which input symbol you want to choose, please see section "Viewing pictures from equipment connected to the TV" on page 27.

RF signal (TV broadcast channels) can not be displayed on the right screen.

Selecting the sound

The sound of the active screen (framed) always comes from the TV set loudspeakers.

Besides that, you can listen to the active screen as well as the non active screen via headphones.

To do this:

With the PAP switched on, refer to the section "The Sound Adjustment Menu", select "Headphones Set Up" and set the option "PAP Sound" according your preference. For details see page 13.

GB

NexTV™

*(depending on availability of service).

- ① NexTV is an on-screen electronic programme guide, providing you with programme information for different broadcasters.
- ② When looking for information you can search by theme (sports, art, etc...) or date.
- ③ If wrong characters appear when viewing NexTV, use the menu system to enter the "Language" menu (see page 16) and select the same language as the NexTV is broadcast.

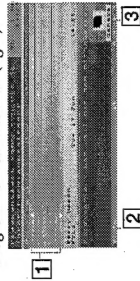
Displaying NexTV

- 1 Select a broadcast channel providing a NexTV service. In this case the indication "NexTV" is displayed as soon as data is available.
- 2 To see NexTV service you have two different types of NexTV interface. These depend on the % of available data:
- a) "Programme List" interface:
Whilst you are watching TV, and after the indication "NexTV" (coloured white) is displayed on the screen, press the **OK** button on the remote control to watch the "Programme List" interface (see fig. 1).
- b) "Overview" interface:
Whilst you are watching TV, and after more than 50% of NexTV data is available (100% data may not be available depending on the area) the indication "NexTV" (coloured black) is displayed on the screen. Press the **OK** button on the remote control to watch the "Overview" interface (see fig. 2).

- 3 To navigate through NexTV:
- Press **Left** or **Right** to move left or right.
 - Press **Up** or **Down** to move downwards or upwards.
 - Press **OK** to confirm a selection.
 - If you have selected a programme, press **OK** to get more information on the selected programme.

- 4 To switch NexTV off, press the **Off** button on the remote control.

"Programme List" interface (fig. 1):



① Programme list

- 2 Date:
Press the red button of the remote control to display the date screen, you can select the desired date by pressing **Up** or **Down**. Next press **OK** to confirm.

② Date

- 3 Categories:
Press the blue button of the remote to display the icons (see below the **OK** key) for different themes. Next press **Up** or **Down** to select the desired icon and finally press the **OK** button to confirm.

③ Categories

Icons' key:

General:
All the programme information is listed by time and broadcast channels order.

- News
- Movie
- Sports
- Show
- Children
- Arts
- Music

GB

"Memory Stick"

- ① "Memory Stick" is a new recording medium with a data capacity that exceeds that of a floppy disk. It is specially designed for exchanging and sharing digital data among "Memory Stick" compatible products. Use "Memory Stick" to display JPEG pictures (DCF version 1.0 format)** individually or as a slideshow presentation on the TV screen.

* "Memory Stick" and the logo are trademarks of Sony Corporation.

** DCF (Design rules for Camera File systems) is a standard file name format for digital still cameras etc. It is supported by Sony and other manufacturers.

Inserting a "Memory Stick"

Insert the "Memory Stick" into the "MEMORY STICK" slot until it clicks into the connector (see picture).

- ② Insert the "Memory Stick" with the mark facing up and pointing towards the "MEMORY STICK" slot.

- ③ The red light of the Memory Stick flashes indicating that the "Memory Stick" contents are being read.

Inserting a "Memory Stick Duo"

You can also use a "Memory Stick Duo" with this unit by inserting the "Memory Stick Duo" into a "Memory Stick Duo adaptor".

- ④ Do not insert a "Memory Stick Duo" without the adaptor.
- Do not insert a "Memory Stick Duo adaptor" without the facing wrong direction (upside down or backwards).

Viewing pictures from the "Memory Stick"

See pages 23, 24 and 25.

Removing a "Memory Stick"

- ⑤ Confirm that the red light of the "Memory Stick" is off.
- Push the "Memory Stick" and then release, the "Memory Stick" will spring out. Remove the "Memory Stick".

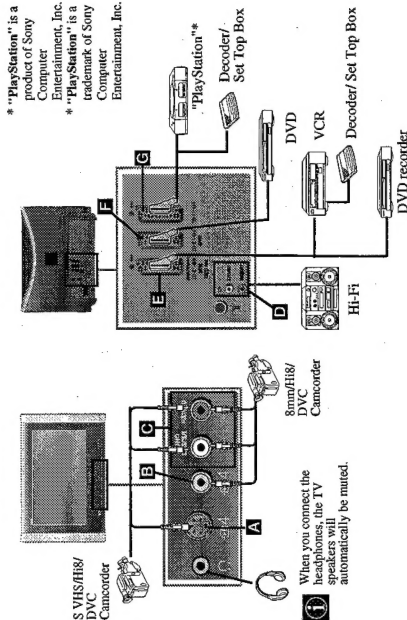
"Memory Stick" precautions

- Do not remove the "Memory Stick" while it is reading or writing data.
- We recommend that you make a backup copy of any important data that you record on the "Memory Stick".
- When you set the "Memory Stick" erasure prevention switch to "LOCK", data cannot be recorded, edited, or erased.
- Data may become damaged if:
 - you remove the "Memory Stick" or turn off the TV while it is reading or writing data.
 - you use the "Memory Stick" in a location subject to the effects of static electricity or electric noise.
- "Memory Stick" supports JPEG DCF formatted files only. Any files not recognised as DCF format will be displayed as "-----". JPEG DCF formatted files that have been created or modified on a PC may not appear correctly on the TV screen.
- Pictures taken by some equipments may not be displayed on this television screen.
- Besides all the above precautions, we recommend you to read carefully the instructions supplied with the "Memory Stick".
- Before using a "Memory Stick Duo", please read the supplied "Caution about Memory Stick Duo" book.

continued...

Connecting Equipment to the TV

- ① Using the following instructions you can connect a wide range of optional equipment to your TV set.
- Connecting cables are not supplied.



- ② To avoid picture distortion, do not connect external equipment to connectors **A** and **B** at the same time.
- Do not connect a Decoder to the Scar **E**.
 - Games that use a "GUN" attachment to point at the screen may not work correctly due to the 100Hz technology used in this TV.

Connecting a VCR

To connect a VCR, please refer to the section "Connecting the aerial and VCR" of this instruction manual on page 7.

Connecting a VCR that supports SmartLink

SmartLink is a direct link between the TV set and the VCR. For more information on SmartLink, please refer to the instruction manual of your VCR.

If you use a VCR that supports SmartLink, please connect the VCR to the TV using a Scar lead to the Scar **C-3/3**.

If you have connected a decoder or a Set Top Box to the Scar **C-3/3** or through a VCR connected to this Scar

Select the "Manual Programme Preset" option in the "Set Up" menu and after entering in the "Decoder" option, select "On" (refer to page 18). Repeat this option for each scrambled signal.

**This option is only available depending on the country you have selected in the "Country" menu.

continued...

Remote Control Configuration for VCR or DVD

- ① In it's default condition this remote control will operate the basic functions of this Sony TV, Sony DVDRs and most Sony VCRs. To control VCRs and DVDRs of other manufacturers (and some Sony VCR models), the remote control needs to be configured.

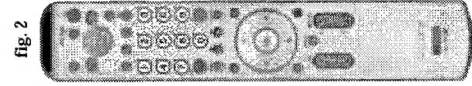


fig. 2

- To do this:
- ② Before you start, look up the 3 digit code for your brand of VCR or DVD from the list below. On those brands that have more than one code, enter the first code number.

- Sony will endeavour to update the software according to market changes. Therefore, please refer to code table included with the remote control for latest code set.

- A small label is added inside the battery door to allow you to record your brand codes.

- 1 Press and hold the **Media Selector** button of the remote control for approximately 6 seconds until the green DVD and VCR light of the Media Selector starts flashing (see fig. 1).

- 2 While the VCR and DVD lights are flashing, enter all three digits of the code for your brand of VCR or DVD (see the list below) using the number buttons on the remote control (see fig. 2).

- ③ If your selected code is entered correctly, the green light VCR or DVD (according to your selection) will be lit momentarily (see fig. 3), otherwise repeat all the above steps.

- 3 Turn on your VCR or DVD and check that the main functions work.

- If your device is not working or some of the functions do not work please check that you entered the correct code set or try the next code listed against the brand.

- Not all brands are covered and not all models of every brand may be covered.

- 4 Always remember to press the **On** button until the green light illuminates according to the equipment you want to operate with this remote control: VCR, TV or DVD. Refer to pages 28 - 29 on how to operate the AUX mode.

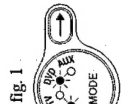


fig. 1





6 sec.



fig. 3

VCR Brand List		DVD Brand List	
Brand	Code	Brand	Code
SONY (VHS)	301, 302, 303, 308, 309, 362	SONY	001, 029, 030, 036, 037, 038, 039, 040, 041, 042, 043, 044, 053, 054, 055
SONY (Beta)	303, 307, 310	AIWA	021
SONY (DV)	304, 305, 306	AKAI	032
AIWA	325, 331, 331	DENON	018, 027, 028, 002
AKAI	326, 329, 330	GRUNDIG	009, 028, 023, 024, 016, 003
DAEWOO	342, 343	HITACHI	025, 026, 015, 004, 035
HITACHI	327, 333, 334	JVC	006, 017
JVC	314, 315, 322, 344, 352, 353, 354, 348, 349	KENWOOD	008
LG	332, 338	LOEWE	015, 014, 034
LOEWE	358, 355, 360, 361, 320, 351	MATSUI	009, 028, 023, 024, 016, 003
MATSUI	356, 357	MATSUI	013, 016
ORION	328	ONKYO	022, 033
PANASONIC	321, 323	PANASONIC	018, 027, 020, 002, 045, 046, 047
PHILIPS	311, 312, 313, 316, 317, 318, 358, 359, 363, 364	PHILIPS	009, 028, 023, 024, 016, 003, 031
SAMSUNG	339, 340, 341, 345	PIONEER	004, 050, 051, 052
SANYO	335, 336	SAMSUNG	011, 014
SHARP	324	SANYO	007
THOMSON	319, 350, 365	SHARP	019, 027
TOSHIBA	337	THOMSON	012
		TOSHIBA	003, 048, 049
		YAMAHA	018, 027, 020, 002

Technical Specifications

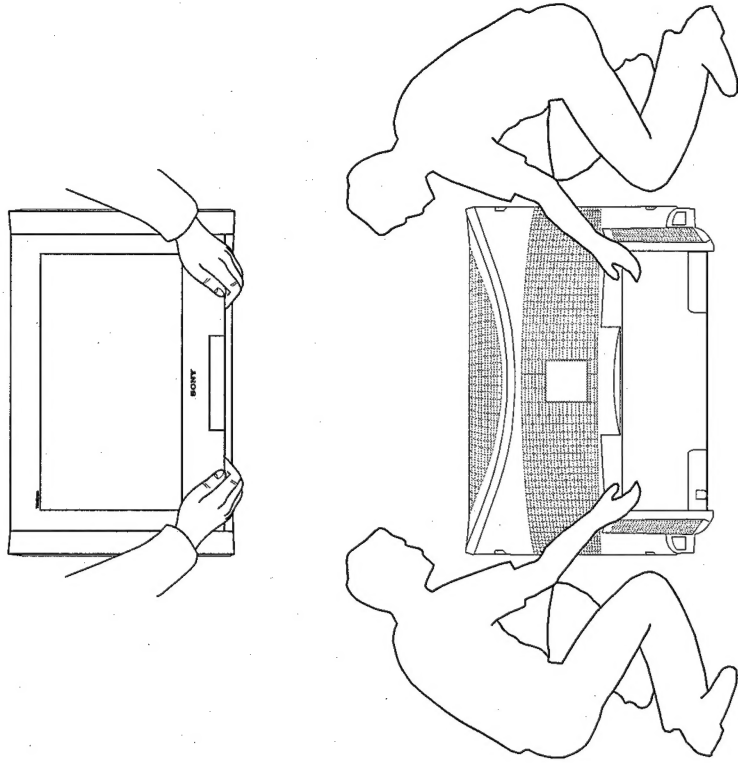
TV System: Depending on your country selection: B/G/H, D/K, L, I Colour system: SECAM, NTSC 3.58, 4.43 (only Video In) Channel Coverage: VHF: E2-E12 UHF: E21-E69 CATV: S1-S20 HYPER: S21-S41 D/K: R1-R12, R21-R69 Picture Tube: Flat Display FD Trinitron WIDE: 32" (approx. 82cm, measured diagonally)	Rear Terminals <ul style="list-style-type: none"> • AV1  1 21-pin scart connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output. • AV2  2 21-pin scart connector (CENELEC standard) including audio/video input, RGB input, monitor audio/video output. • AV3  3 21-pin scart connector (CENELEC standard) including audio/video input, S Video input, Selectable audio/video output and SmartLink interface. • AV3  3 audio outputs (Left/Right) - phone jacks 	Sound Output: 2 x 20 W (music power) 2 x 10 W (RMS) • Woofer: 30 W (music power) 15 W (RMS) Power Consumption: 135 W Standby Power Consumption: 0.5 W Dimensions (w x h x d): approx. 910 x 586 x 586 mm Weight: approx. 64 kg
	Accessories supplied: <ul style="list-style-type: none"> • 1 Remote Control (RM-942) • 2 Batteries (IEC designated size AA) 	
	Other features: <ul style="list-style-type: none"> • 100 Hz picture, Digital Plus. • Teletext, Fastext, TOPtext. • NextView. • SmartLink. • TV system autodetection. • Dolby Virtual. • BBE Digital. • NICAM. • PAP. • AC1 (Auto Channel Installation). • "Memory Stick" (reader). • Auto Format. 	

Optional accessories:
• Stand especially designed for this TV (SU-32FQ3)

Deesign and specification are subject to change without notice.






This instruction manual has been printed on:
Ecological Paper - Totally Chlorine Free

Lifting the TV Set









Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark) and no sound.	<ul style="list-style-type: none"> • Check the aerial connection. • Plug the TV in and press the  button on the front of the TV. • If the standby indicator  is on, press TV  button on the remote control.
Poor or no picture (screen is dark), but good sound.	<ul style="list-style-type: none"> • Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings (see page 11).
No picture or no menu information from equipment connected to the Scart connector.	<ul style="list-style-type: none"> • Check that the optional equipment is on and press the  button repeatedly on the remote control until the correct input symbol is displayed on the screen (see page 27).
Good picture, no sound.	<ul style="list-style-type: none"> • Press the  button on the remote control. • Check that "TV Speakers" is "On" in the "Sound Adjustment" menu (see page 13). • Check that headphones are not connected.
No colour on colour programmes.	<ul style="list-style-type: none"> • Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to factory settings (see page 11).
When you switch on the TV the last channel you were watching before switching the TV off does not appear.	<ul style="list-style-type: none"> • This is not a malfunction. Press the number buttons on the remote control to select the desired channel.
Distorted picture when changing programmes or selecting teletext.	<ul style="list-style-type: none"> • Turn off any equipment connected to the Scart connector on the rear of the TV.
Wrong characters appear when viewing teletext.	<ul style="list-style-type: none"> • Use the menu system to enter the "Country" menu (see page 16) and select the country in which you operate the TV set. For Cyrillic languages, we recommend selecting Russia country if your own country does not appear in the list.
Wrong characters appear when viewing NextView.	<ul style="list-style-type: none"> • Use the menu system to enter the "Language" menu (see page 16) and select the same language that NextView is broadcast in.
Picture slanted.	<ul style="list-style-type: none"> • Using the menu system, select the "Picture Rotation" option in the "Features" menu to correct the picture slant (see page 15).
Snowy picture when viewing a TV channel.	<ul style="list-style-type: none"> • Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better picture reception (see page 18). • Using the menu system, select the "Noise Reduction" option in the "Picture Adjustment" menu and select "Auto" to reduce the noise in the picture (see page 11).

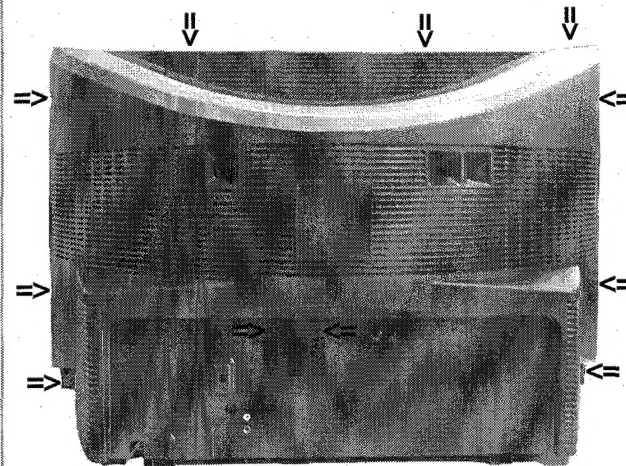
continued...

Problem	Solution
No unscrambled picture whilst viewing an unscrambled channel with a decoder or a Set Top Box connected through the Scart connector  3.	<ul style="list-style-type: none"> • Using the menu system, select the "Features" menu and set "AV3 Output" to "TV" (see page 15). • Check that the Decoder or the Set Top Box is not connected on the scart  2.
 ,  and  buttons do not work in PAP mode.	<ul style="list-style-type: none"> • PAP navigation is only possible in TV mode, please check that Media Selector is set to TV.
Remote control does not function.	<ul style="list-style-type: none"> • Check that the Media Selector on the remote control is set to the device you are using (VCR, TV, DVD or AUX). • If the remote control does not operate the VCR or DVD even when the Media Selector has been set correctly. Enter the necessary code set as explained on page 30. • Replace the batteries.
The standby indicator  on the TV flashes.	<ul style="list-style-type: none"> • Contact your nearest Sony service centre.

If you continue to experience problems, have your TV serviced by qualified personnel. Never open the casing yourself.

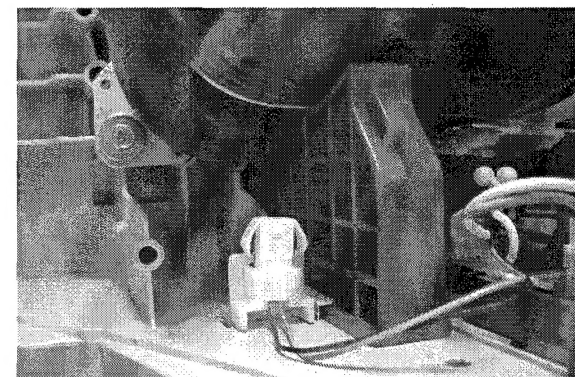
SECTION 2 DISASSEMBLY

2-1. Rear Cover Removal



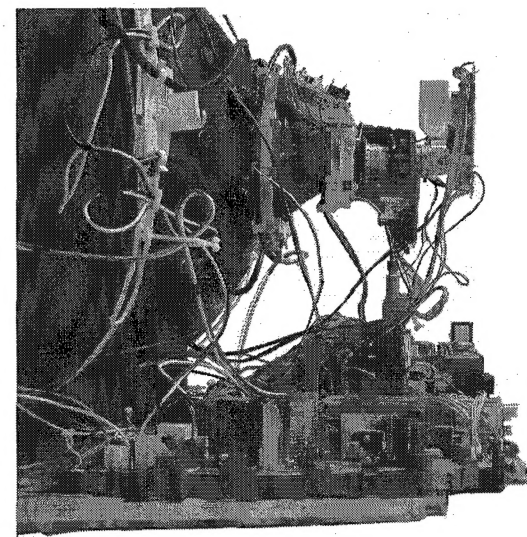
Remove the rear cover fixing screws indicated and pull the rear cover backwards away from the set. Take care when removing the rear cover not to damage the speaker cable [Disconnect the speaker connector] a speaker is fitted inside the rear cover.

2-2. Speaker Connector Disconnection

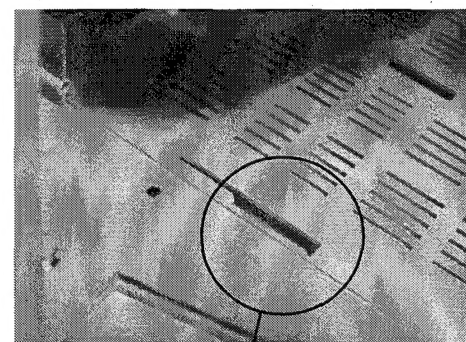


Before completely removing the rear cover disconnect the speaker connector which is located on the inside of the set.

2-3. Chassis Removal and Refitting

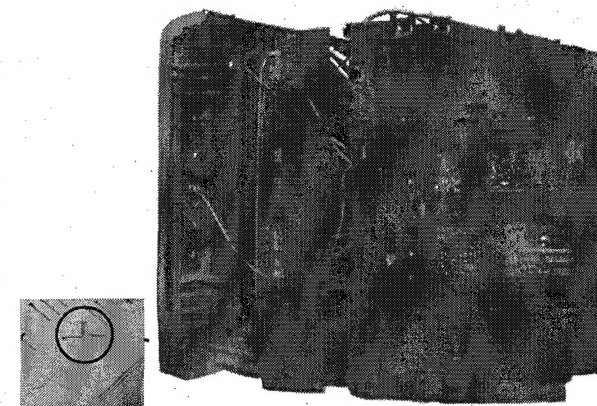


To remove lift the main bracket rear slightly and slide the chassis away from the beznet. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.



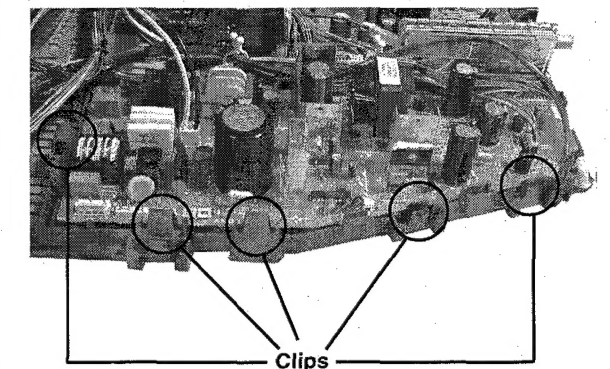
When refitting the chassis ensure that the main bracket is located in the beznet guide slots before sliding the chassis forwards. Refit the inter-connecting leads in their respective purse locks.

2-4. Service Position



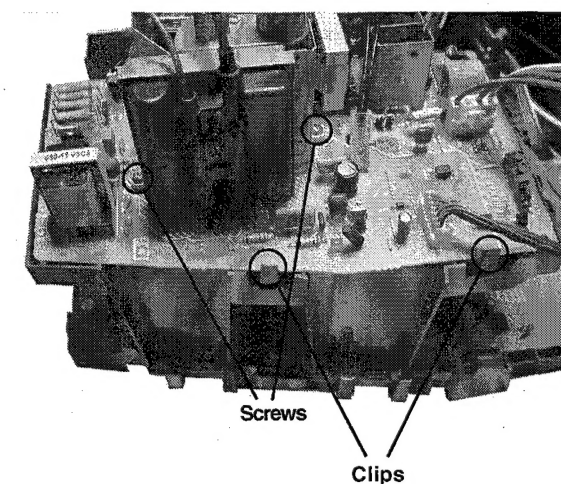
To place the chassis in the service position, insert the main bracket firmly into the T-slot located on the left corner of the beznet as indicated (see inset). To gain access to the underside of the boards follow the instructions on page 16. [Removal and Replacement of the main bracket bottom plates].

2-5. G Board Removal



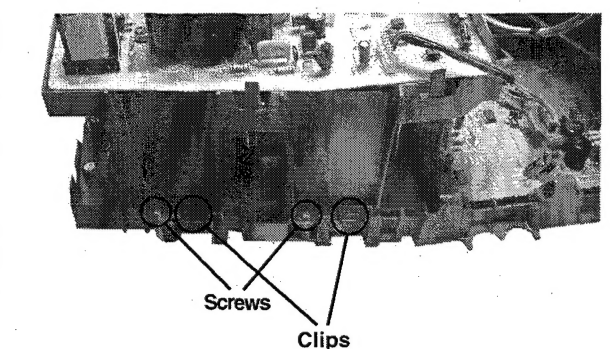
To remove the G Board remove the two screws from the middle of the board, release the clips circled and ease the board gently away from the support bracket.

2-6. D2 Board Removal



To remove the D2 board remove the two screws circled, release the clips circled and ease the board gently away from the support bracket.

2-7. D Board Removal

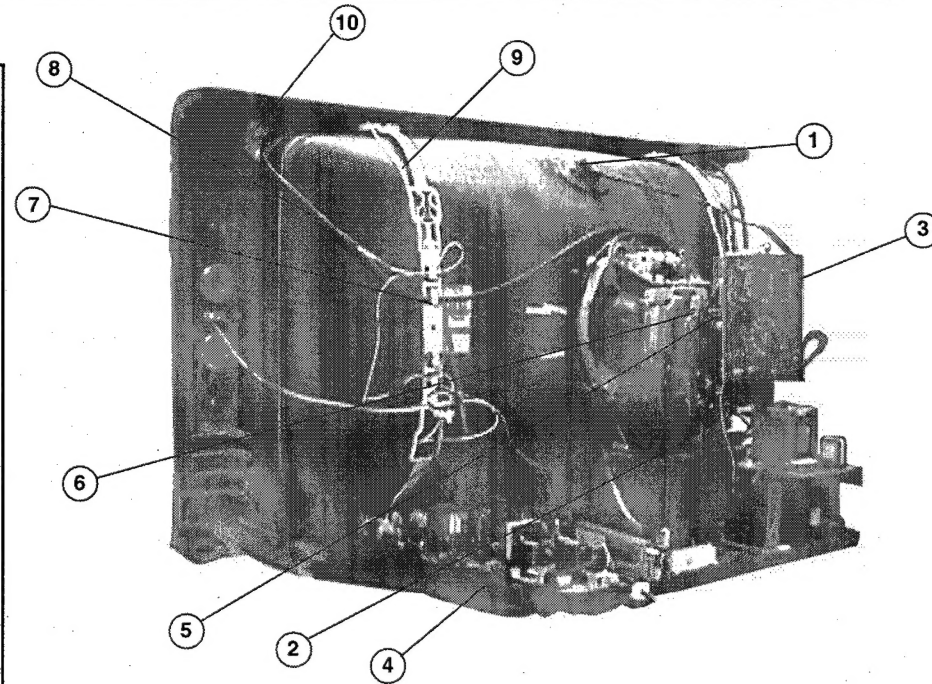
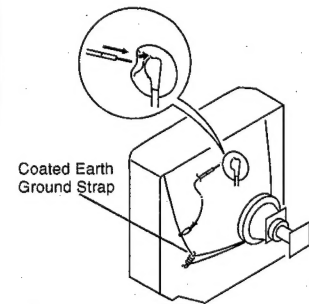


To remove the D board first remove the D2 bracket by removing the two screws circled and releasing the four clips (two on each side of the bracket). The D board can then be removed using the same method as the G board but with the necessity to remove only one screw from the middle of the D board.

2-8. Picture Tube Removal

WARNING: BEFORE REMOVING THE ANODE CAP

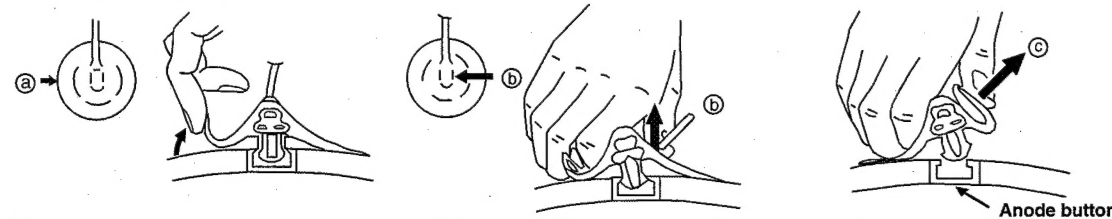
High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT *before* attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.



1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the Deflection yoke, neck Assy, degaussing coils and CRT grounding strap.
3. Remove the C Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the Neck assembly fixing screw and remove.
6. Loosen the Deflection yoke fixing screw and remove.
7. Place the set with the CRT face down on a cushion and remove the Degaussing Coil holders.
8. Remove the Degaussing Coils.
9. Remove the CRT grounding strap and spring tensioners.
10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT.
[Take care not to handle the CRT by the neck.]

Removal of the Anode-Cap

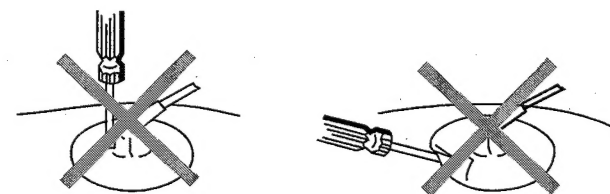
REMOVAL PROCEDURE.



- ① Turn up one side of the rubber cap in the direction indicated by the arrow (a).
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c).

How to handle the Anode-Cap

1. To prevent damaging the surface of the anode-cap do not use sharp materials.
2. Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
3. A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
4. Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.

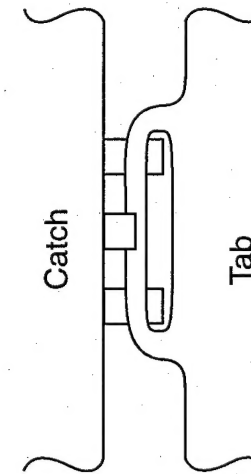


For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.

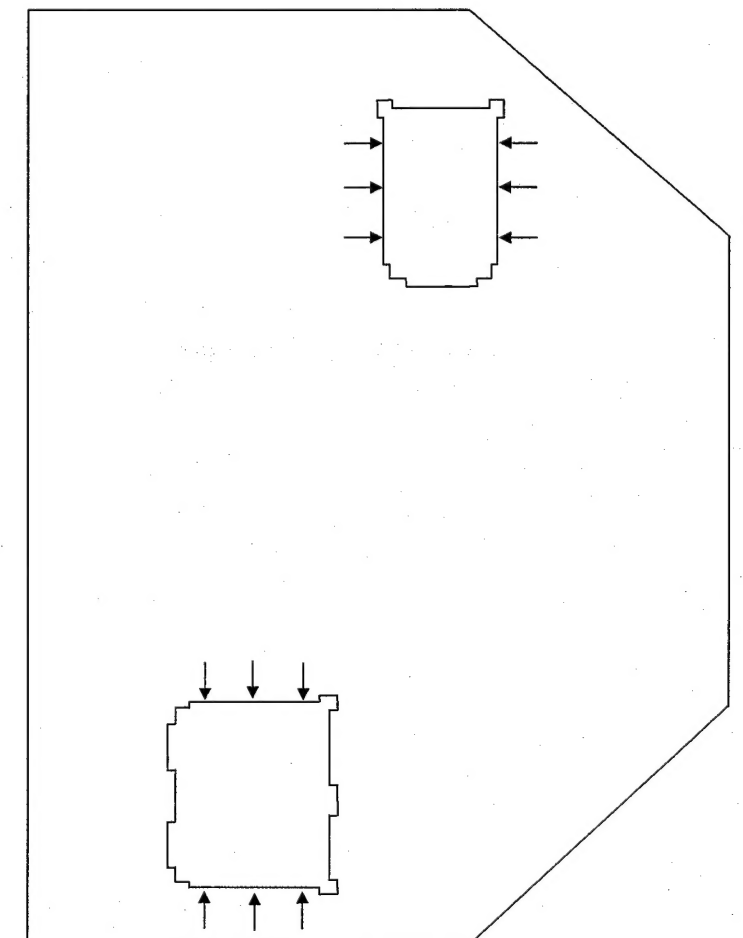


REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the printed wiring boards, the bottom plates fitted to the main chassis bracket require to be removed. This is performed by cutting the gates with a sharp wire cutter at the locations indicated by the arrows.

Note: There are 2 plates fitted to the main bracket. Only remove the necessary plate to gain access to the printed wiring board.



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings :

Contrast normal

Brightness normal

Carry out the adjustments in the following order :

- 3-1. Beam Landing.
- 3-2. Convergence.
- 3-3. Focus.
- 3-4. White Balance.

Note : Test equipment required.

1. Color bar/pattern generator.
2. Degausser.
3. Oscilloscope.
4. Digital multimeter.

3-1. Beam Landing

Preparation :

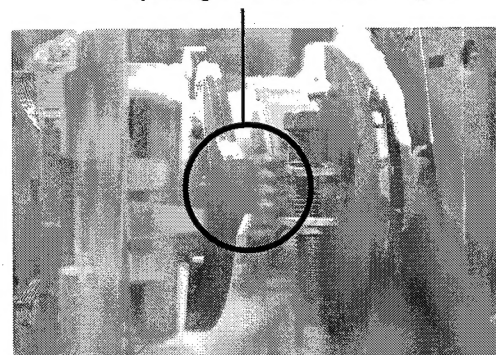
1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
2. Switch on the TV set's power and degauss with a degausser.

(1) Adjustment of Correction Magnet for Y-Splitting Axis.

1. Input a crosshatch signal from the pattern generator.
2. Set the Picture control to minimum and confirm that the Brightness control is set to normal.
3. Position the neck assembly as indicated in Fig.3-2.
4. Loosen the deflection yoke fixing screw.
5. Move the deflection yoke as far forward as is possible.
6. Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly. [See Fig 3-3]
7. Return the deflection yoke to its original position and re-tighten its fixing screw.

Fig.3-1

Y-splitting axis correction magnet



Caution :

High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.

(2) Landing

Note : Before carrying out the following adjustments adjust the magnets as indicated [See Fig.3-4].

1. Input a crosshatch signal from the signal generator.
2. Rough-adjust the focus and horizontal convergence.
3. Switch from the crosshatch pattern to an all-red pattern.
4. Move the deflection yoke backwards and adjust with the purity magnet so that the red is at the centre and it aligns symmetrically [See Fig.3-5].
5. Move the deflection yoke forward to the point where the entire screen just becomes red [Mark its position].
6. Move the deflection yoke further forward until the screen just changes colour at the edges. [Mark its position]
7. Position the deflection yoke between the two marks indicated above.
8. Input a crosshatch pattern from the pattern generator and rotate the deflection yoke so that the horizontal lines are parallel with the top and bottom of the screen.
9. When the position of the deflection yoke has been determined, fasten it with its fixing screw.
10. Switch the pattern generator to green then blue and confirm the purity.
11. If the beam does not land correctly in all the corners of the screen, use disk magnets to correct it. [Confirm the corner landing for green and blue]

Fig.3-2

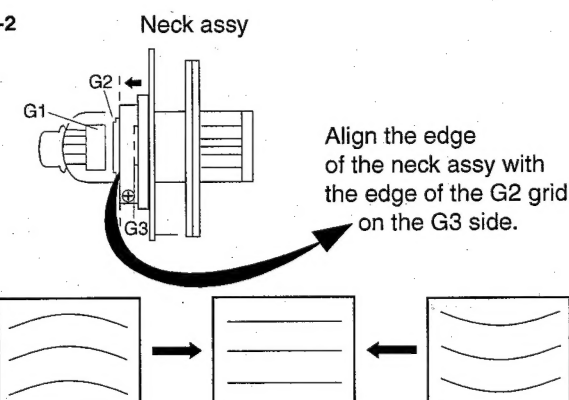
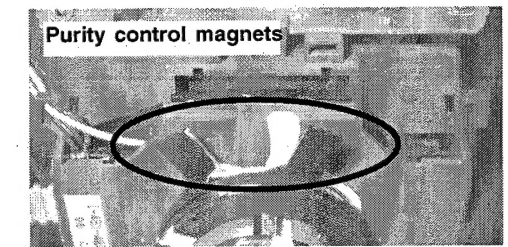
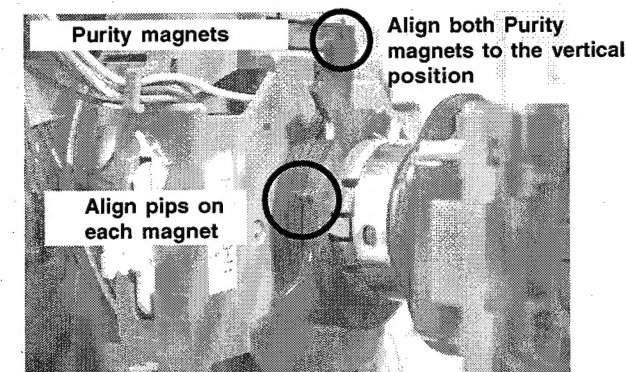


Fig.3-3

Fig.3-4

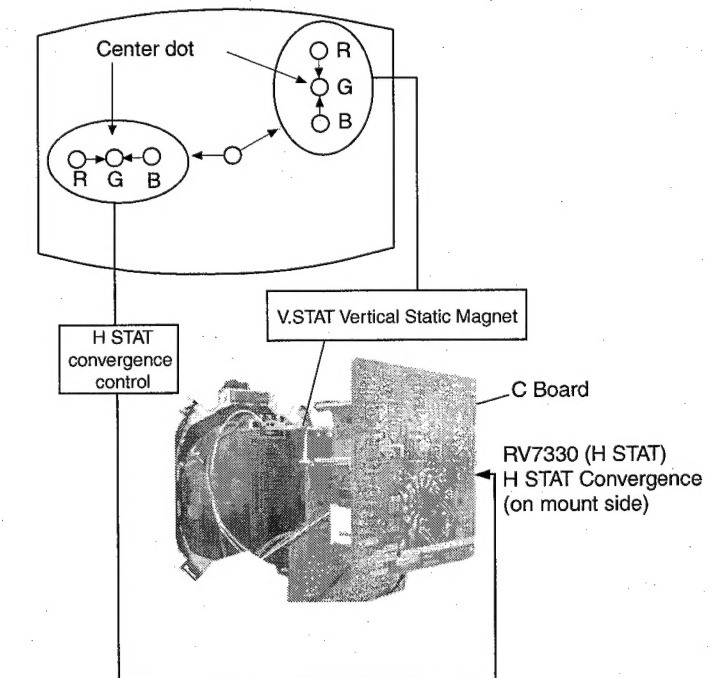
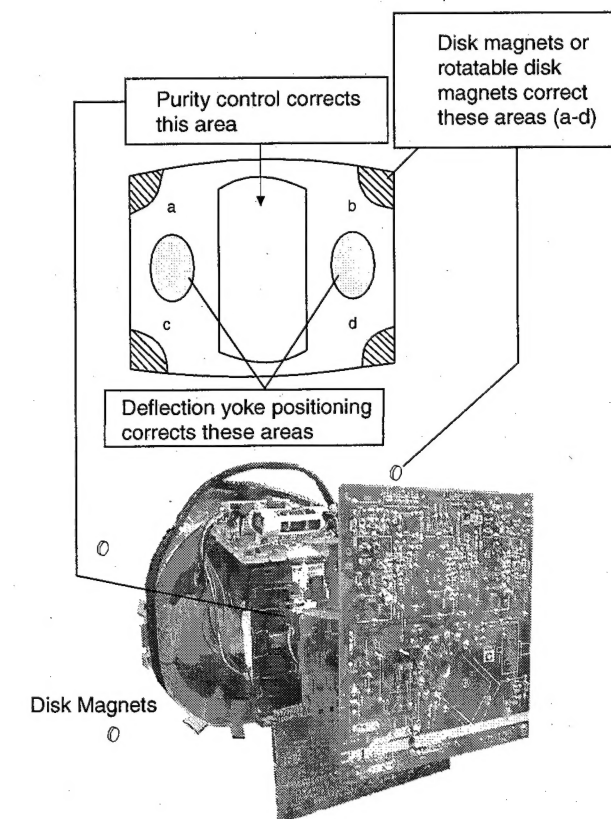


3-2. Convergence

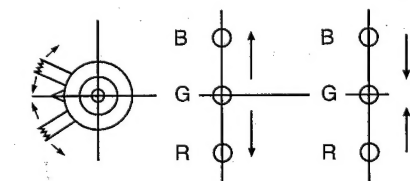
(1) Screen centre convergence [Static convergence]

1. Input a dot pattern signal from the pattern generator.
2. Normalize the picture setting.
3. [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.

Fig.3-5



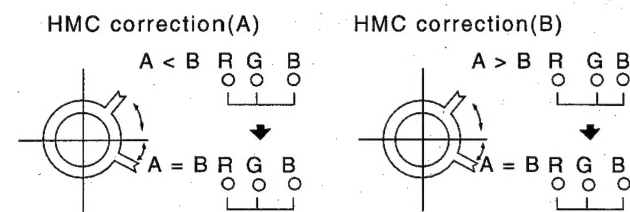
By opening or closing the V.STAT magnet, the red green and blue dots move in the direction indicated below.



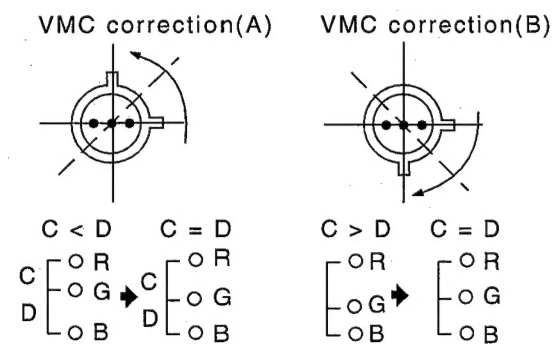
Note: Do not adjust the H.STAT by rotating the V.STAT magnets as this can affect the focus setting.

4. Correction for HMC [Horizontal mis-convergence] and VMC [Vertical mis-convergence] by using the BMC [Hexapole] magnet.

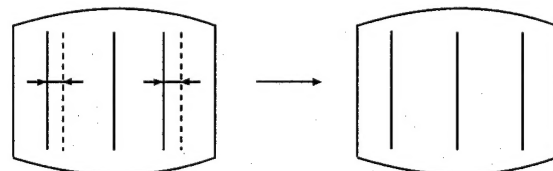
- a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.



- b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.

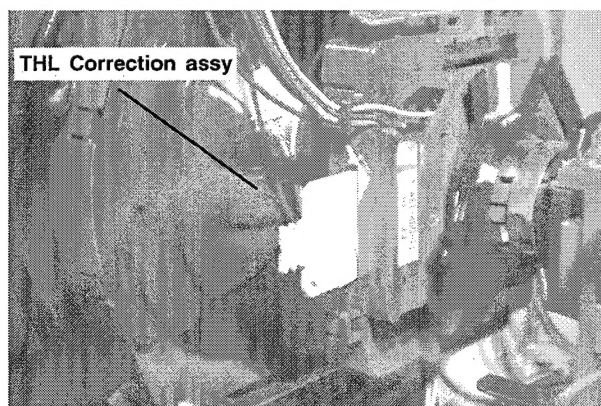


HAMP Adjustment

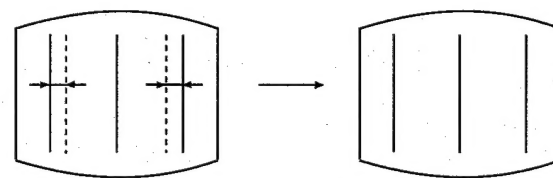


Adjust the HAMP using HAMPL and HAMPR registers in the Dynamic Convergence section of the service menu.

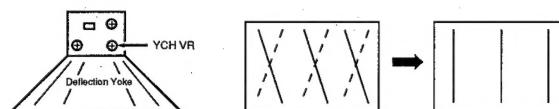
HTIL Adjustment



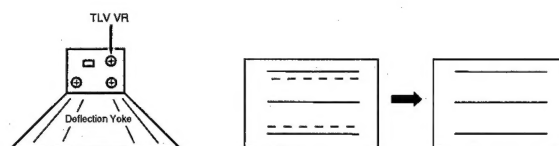
HTIL correction can be performed by adding a THL correction assembly to the Deflection yoke.



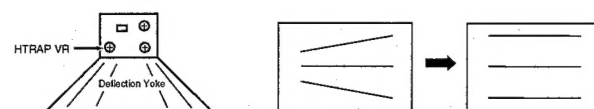
YCH Adjustment



TLV Adjustment

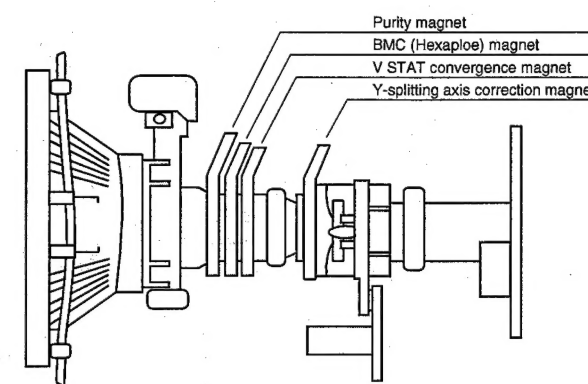


H-TRAP Adjustment

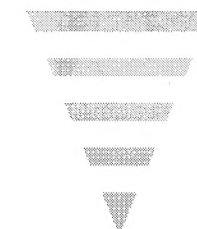
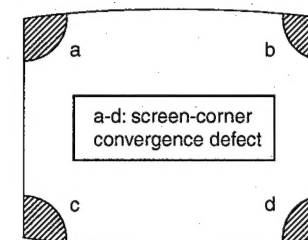


The H-TRAP should not be adjusted unless absolutely necessary as it affects the TLV settings.

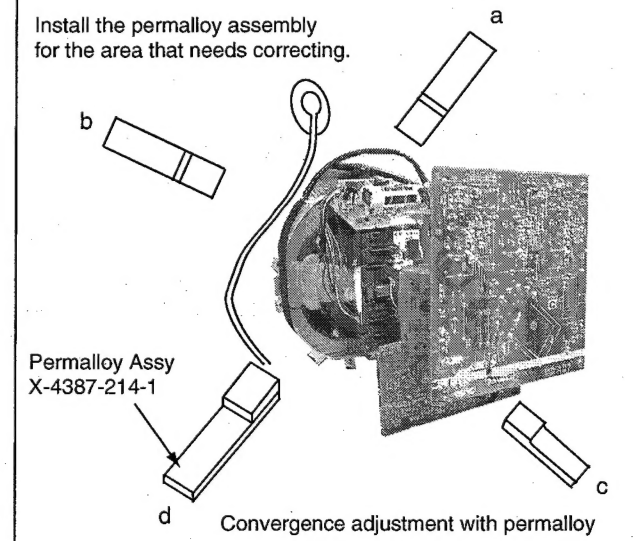
Layout of each control



Note : If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.

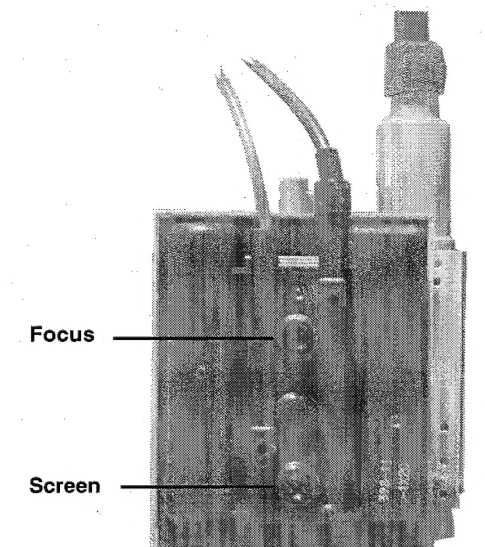


Install the permalloy assembly for the area that needs correcting.



3-3. Focus Adjustment

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen. Bring only the centre area of the screen into focus, the magenta-ringing appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 175V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control [SCREEN] located on the flyback transformer to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

1. Input an all-white signal from the pattern generator.
2. Program the Remote Commander for operation in Service Mode. [See Page 21].
3. Enter into the 'Service Mode' by pressing 'AUX/VIDEO' button twice and 'MENU' on the Service Commander.
4. Select 'Service' from the on screen menu display and press 'Right Arrow'.
5. The 'Service' menu will appear on the screen.[See Page 21]
6. Select 'Picture' from the on screen menu and press right arrow.
7. Select 'Picture settings' from the on screen menu and press right arrow and set the 'Contrast_Max' to MAX.
8. Select 'White Balance' from the on screen menu and press right arrow.
9. The 'White Balance' menu will appear on the screen.
10. Set the 'Normal_PAL_RD' to 465.
11. Adjust the 'Normal_PAL_GD' and the 'Normal_PAL_BD' so that the white balance becomes optimum.
12. Select 'Picture settings' from the on screen menu and press right arrow and set the 'Contrast_Min' to MIN.
13. Set the 'Normal_PAL_RC' to 121.
14. Adjust the 'Normal_PAL_GC' and the 'Normal_PAL_BC' with the left and right buttons on the commander so that the white balance becomes optimum.
15. Press the 'OK' button to write the data for each item.

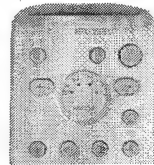
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments

Service adjustments to this model can be performed using the supplied remote Commander RM-942.

Programming the Remote Commander for Operation in Service Mode

- Press and hold the left Mode Select button until the VCR and DVD LED's flash.
- Press 99999. The TV LED should light. The remote commander is now set to Service Mode.
- To return the remote commander to normal operation mode repeat step 1. then press 00000. The TV LED should light. The remote commander is now set to normal mode.



Setting the TV into Service Mode

- Program the remote commander for operation in Service Mode as described above.
- Turn on the TV main power switch.
- Press the 'aux/video' standby button on the remote commander twice. 'TT__' will appear in the upper right corner of the screen. Other status information will also be displayed.
- Press 'MENU' on the remote commander to obtain the following menu on the screen.

Service Main Menu:AE6BA/Y (v0.26D) NVM VERSION:04H	
Service	▶
Design	
Error	
Select: ▲ ▼	Select Item: ▶ Previous Menu: ◀
FACTORY INFO:FFH FFH 03H	

- Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
- Press the right arrow button to enter into the required menu item.
- Press the 'aux/video' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note :

- After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.

Service			
Geometry			▶
Picture			
Audio			
Select: ▲ ▼	Select Item: ▶	Previous Menu: ◀	

Geometry			
Wide mode adjustment			▶
Screen offsets			
Frequency offsets			
Select: ▲ ▼	Select Item: ▶	Previous Menu: ◀	

Wide mode adjustment			
Description	(min,max)	Default	Value
V AMP	(-128,127)	35	35 ▶
V ZOOM	(0,510)	256	256
V POS	(-512,511)	-10	-10
V LIN	(-128,127)	0	0
V SCORR	(-128,1270)	4	4
H WIDTH	(-256,255)	63	63
V TRAP	(-128,127)	1	1
PIN AMP	(-511,511)	-80	-80
UP COR	(-128,127)	-1	-1
LOW COR	(-128,127)	-2	-2
H POS	(-600,600)	10	10
ANGLE	(-511,511)	-1	-1
BOW	(-511,511)	8	8
H LIN	(0,255)	85	84
H TRAP	(0,255)	138	138
H SCORR	(0,255)	100	100
UP COR 6	(-128,127)	-1	-1
LOW COR 6	(-128,127)	0	0
PIN UNBAL	(-240,240)	-40	-40
MID PIN	(-240,240)	-60	-60
Select: ▲ ▼	Select Item: ▶	Previous Menu: ◀	

Picture			
White balance			▶
Colour Tone			
Picture settings			
Select: ▲ ▼	Select Item: ▶	Previous Menu: ◀	

Picture settings			
Description	(min,max)	Default	Value
SUBCOLOR PAL	(0,63)	31	34 ▶
SUBCOLOR SECAM	(0,63)	31	34
SHP MAXLTI	(0,31)	31	20
SHP MAXPEAK	(0,15)	15	12
CONTRAST MIN	(0,63)	17	17
CONTRAST MAX	(0,63)	59	59
BRIGHT EXPAND	(0,511)	400	400
BRIGHT CENTER	(-256,255)	10	40
Select: ▲ ▼	Select Item: ▶	Previous Menu: ◀	

Audio			
BBE OFF mode			▶
BBE Natural/V.Dolby offsets			
BBE Dynamic offsets			
BBE Cinema offsets			
Subwoofer level adjustments			
Audio detection thresholds			
Select: ▲ ▼	Select Item: ▶	Previous Menu: ◀	

BBE OFF mode			
Description	(min,max)	Default	Value
SW_FREQ_OFF	(5,40)	20	20 ▶
BAND1_OFF_OFFSET	(-96,96)	0	0
BAND2_OFF_OFFSET	(-96,96)	0	0
BAND3_OFF_OFFSET	(-96,96)	0	0
BAND4_OFF_OFFSET	(-96,96)	0	0
BAND5_OFF_OFFSET	(-96,96)	0	0
BBE_LOUDNESS_OFF	(0,68)	0	0
Select: ▲ ▼	Select Item: ▶	Previous Menu: ◀	

Design			
CXA2149 - AVSwitch Device			▶
DDP3315 - Backend Device			
MSP3411 - Sound Processor Device			
TDA988x - IF Device			
TUA60xx - PLL Device			
VSP9427 - Video Processor Device			
CXA2019 - Chroma Decoder			
CXD3804 - 3D Comb Filter			
CXA8070 - Dynamic Convergence Device			
FRC9429 - FRCA Device			
PJ Engine			
Select: ▲ ▼	Select Item: ▶	Previous Menu: ◀	

Error monitor		
WORKING TIME:	(Hours:Minutes)	82:33
Error counters:		
E02: OCP		0
E03: OVP		0
E04: NO V SYNC		0
E05: IKR		0
E06: IIC		0
E07: NVM		0
E08: H PROT		0
E09: TUNER		0
E10: SOUND		0
E11: 9 VOLTS		0
E12: SCANRATE		0
E13: 3DCOMB		0
E14: BACKEND		0
E15: DYNCON		0
E16: HIGH VOLTAGE		0
E17: AVSWITCH		0
E18: CHROMA DEC		0
E19: FRCA		0
E20: PJ ENG		0
E21: DAC		0
E24: SPEAKER PROT		0
E25: MEMORY STICK		0
Select: ▲ ▼	Previous Menu: ◀	

Sub Brightness Adjustment

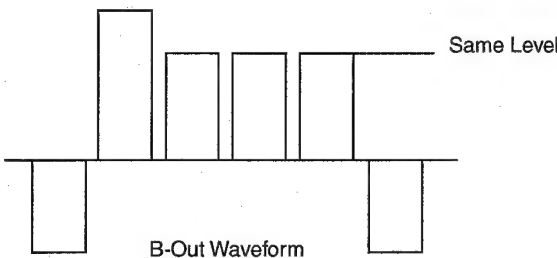
- Input a Monoscope pattern.
- Program the Remote Commander for operation in Service Mode. [See Page 21].
- Press 'AUX/VIDEO' 'AUX/VIDEO' 13 on the Remote Commander.
- Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

Sub Contrast Adjustment

- Input a video signal that contains a small 100% white area on a black background.
- Connect an oscilloscope to Pin 10 of J7330 [C Board].
- Program the Remote Commander for operation in Service Mode. [See Page 21].
- Adjust the Sub-Contrast [Using 'AUX/VIDEO' 'AUX/VIDEO' '11'] to obtain a voltage of 114 +0/- 5V.

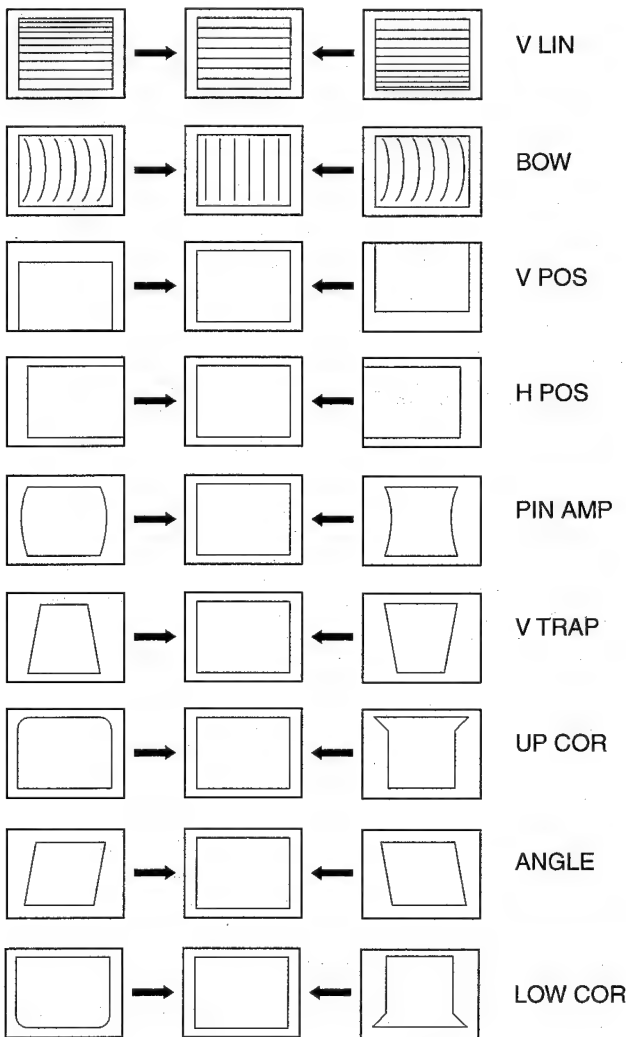
Sub Colour Adjustment

1. Receive a PAL colour bar signal.
2. Connect an oscilloscope to Pin 5 of CN7331 [C Board].
3. Program the Remote Commander for operation in Service Mode.
[See Page 21].
4. Adjust the 'Sub Colour'
[Using 'AUX/VIDEO' 'AUX/VIDEO' '12'] so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.



Deflection System Adjustment

1. Program the Remote Commander for operation in Service Mode.
[See Page 21] and enter into the 'Geometry' service menu,
Wide mode adjustment.
2. Select and adjust each item in order to obtain the optimum image.

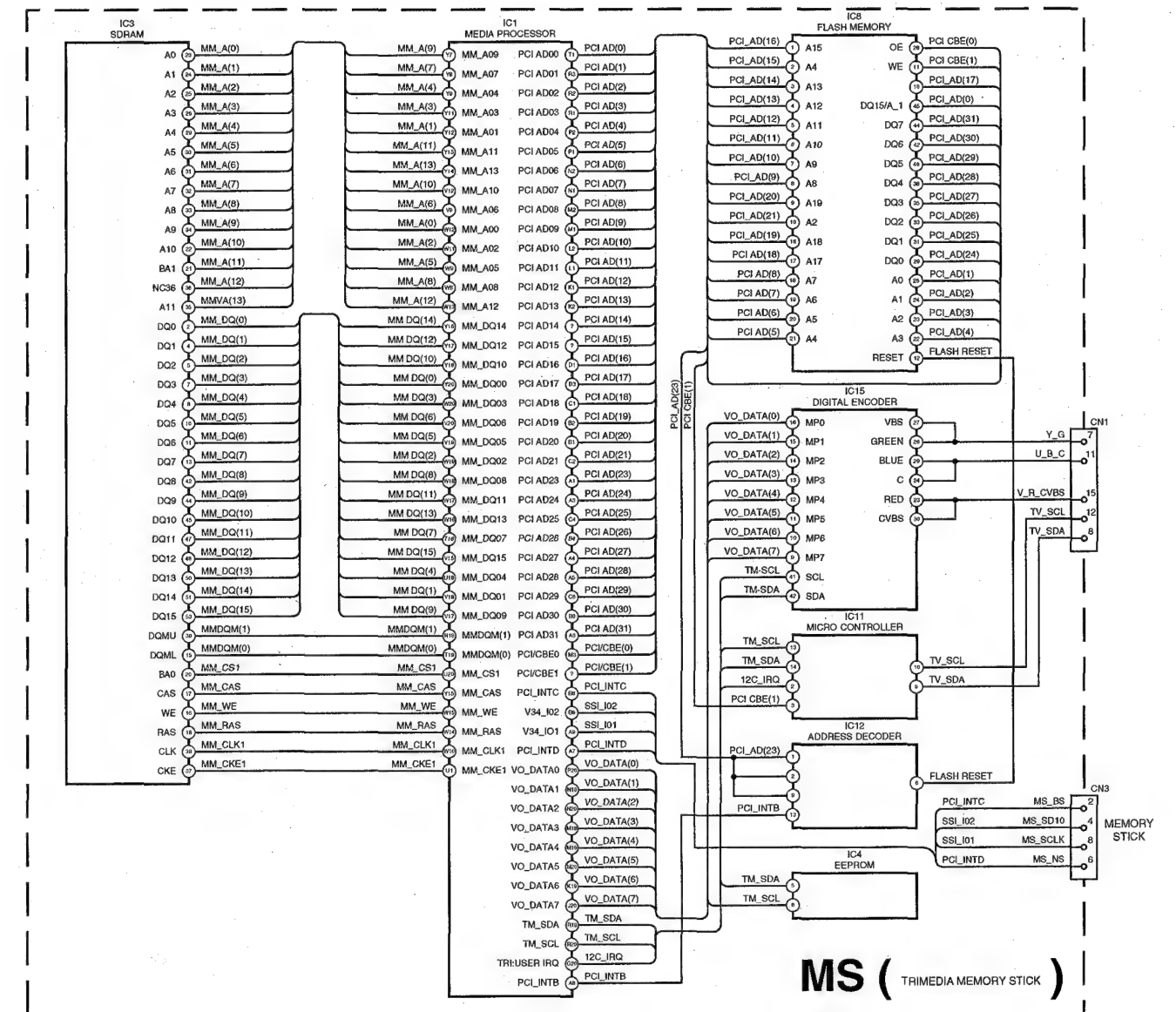
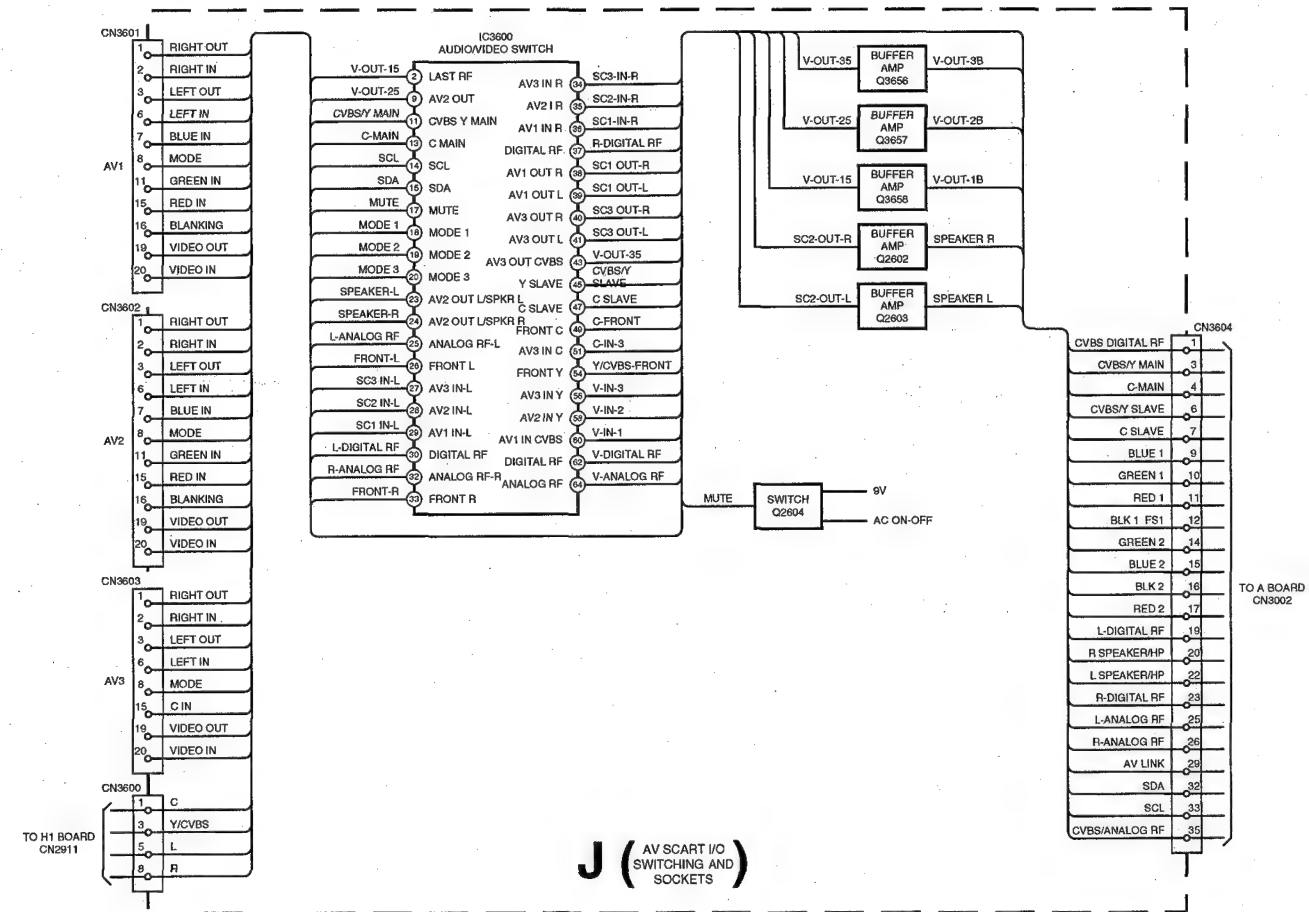


4-2. TEST MODE 2:

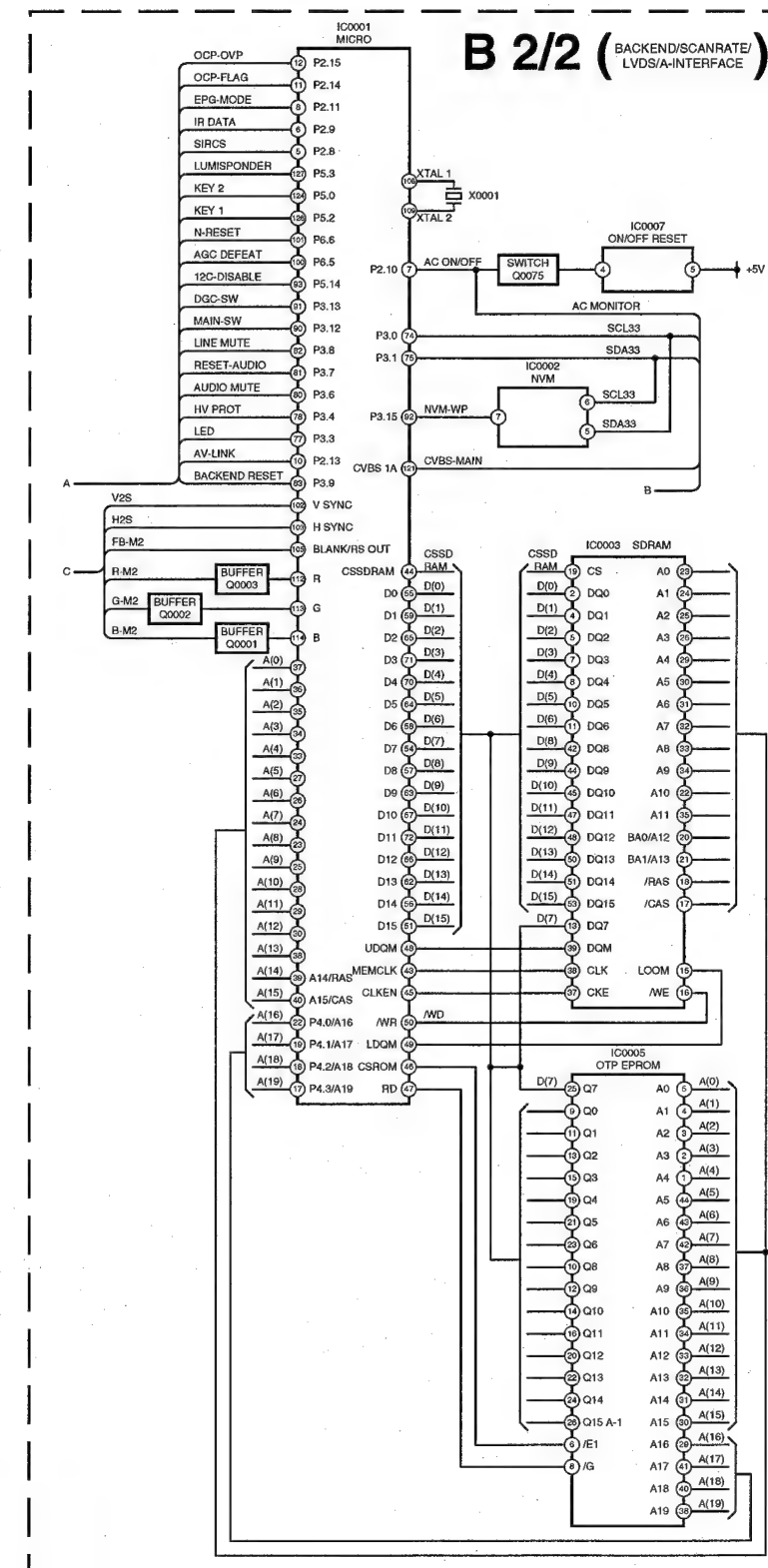
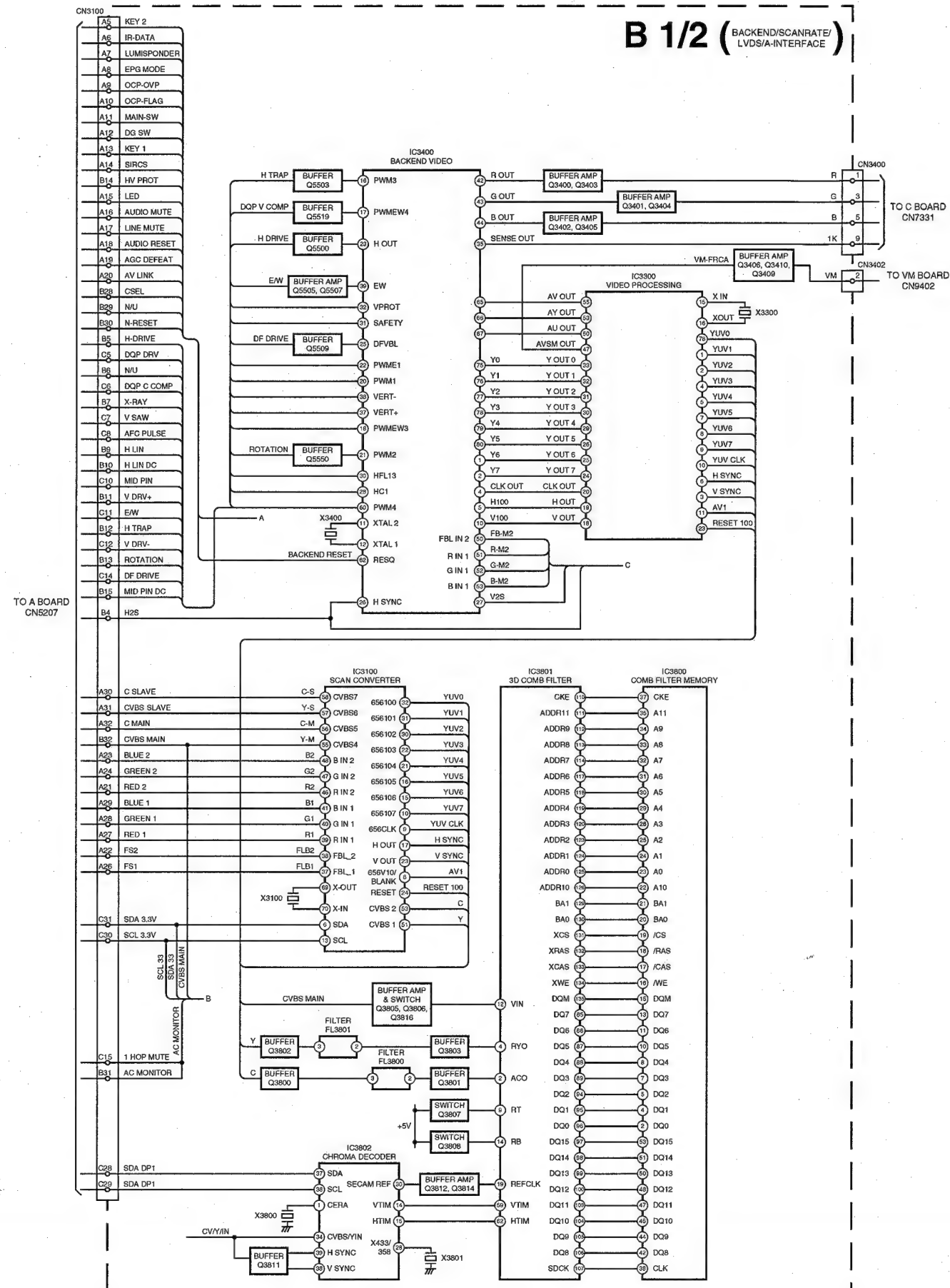
Test Mode 2 is available by programming the Remote Commander for operation in Service Mode [As shown on Page 21] then pressing the 'AUX/VIDEO' button twice, OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release 'Test mode 2', press 00, or switch the TV set into Stand-by mode.

00	'TT' mode off
01	Set picture level to maximum
02	Set picture level to minimum
03	Set speaker/headphone Volume to 35%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing mode on
08	Shipping Condition
11	Sub picture adjustment
12	Sub colour adjustment
13	Sub brightness adjustment
15	Rotation coil test
16	Picture level 50%
19	Factory mode enable/disable
21	Destination ADEKR
22	Destination BL
24	Destination U
35	Wide model selection
36	VM off/on test
43	Select Dual A sound
44	Select Dual B sound
45	Select Mono sound
46	Select Stereo sound
49	Set NVM as virgin
53	FM Overmodulation enable/disable
62	AM from baseband enable/disable
73	Enable Zweiton D/K2 system (6.5/6.74)
74	Enable Zweiton D/K3 system (6.5/6.74)
78	Balance full left
79	Balance full right
87	Local keys test
91	Set 14:9 zoom mode
92	Set Smart zoom mode
93	Set 16:9 zoom mode
94	Set ZOOM zoom mode
95	Set 4:3 zoom mode
96	Set Smart zoom mode (for FX66)
99	DisplayError and Working Time menu

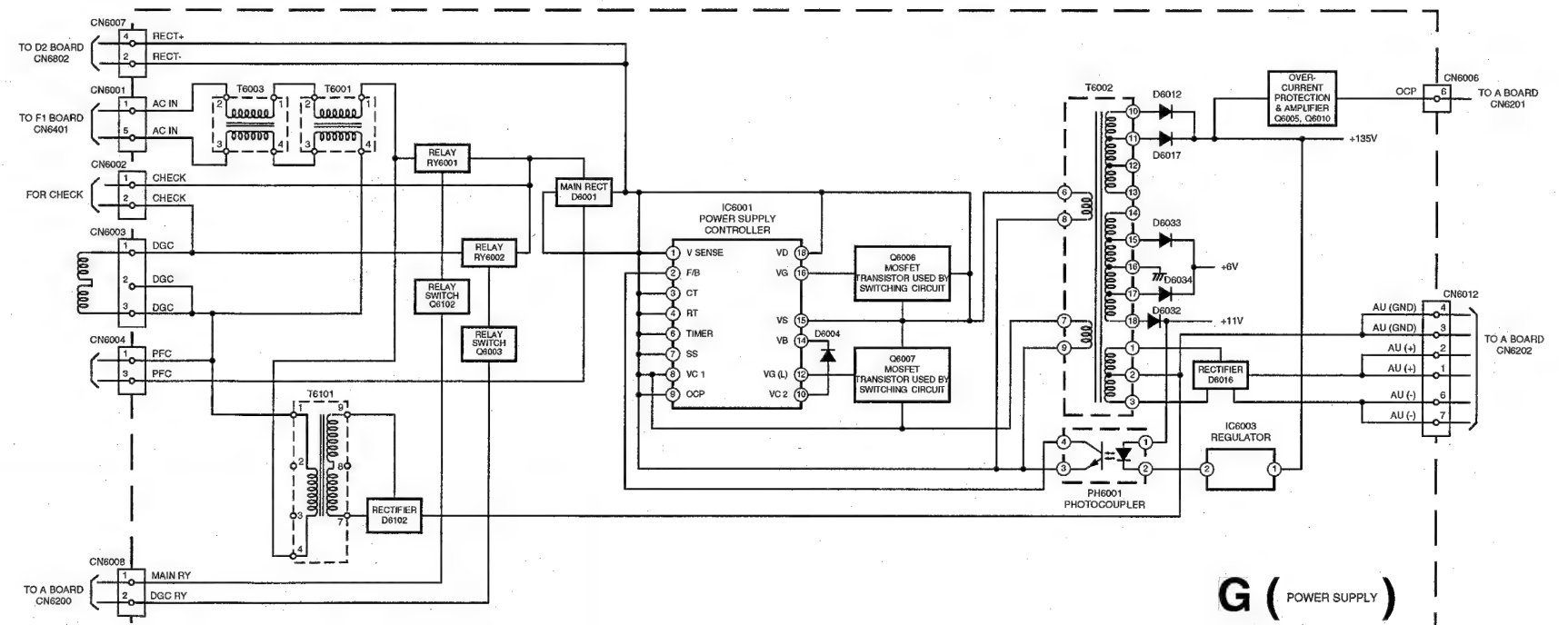
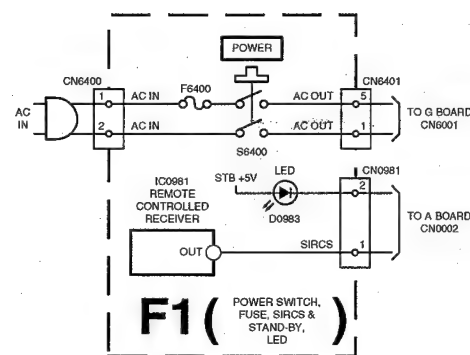
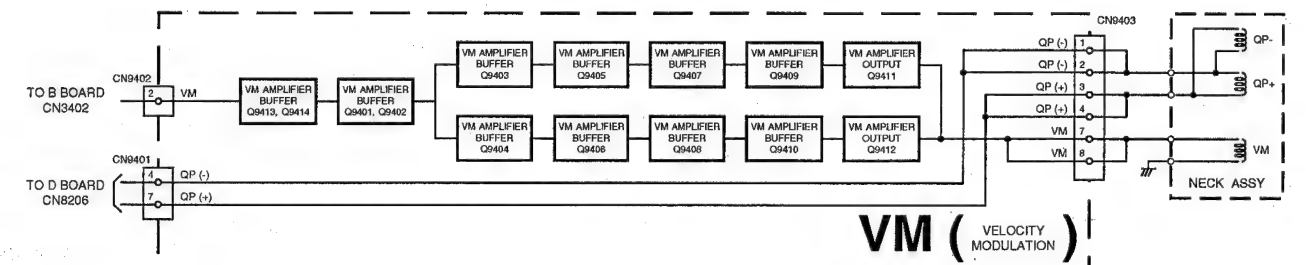
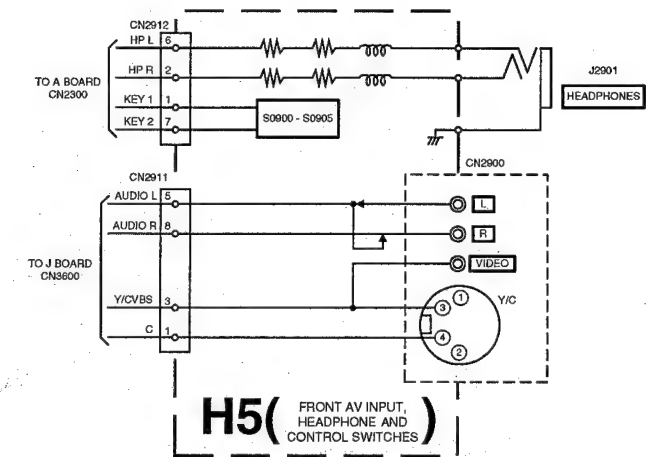
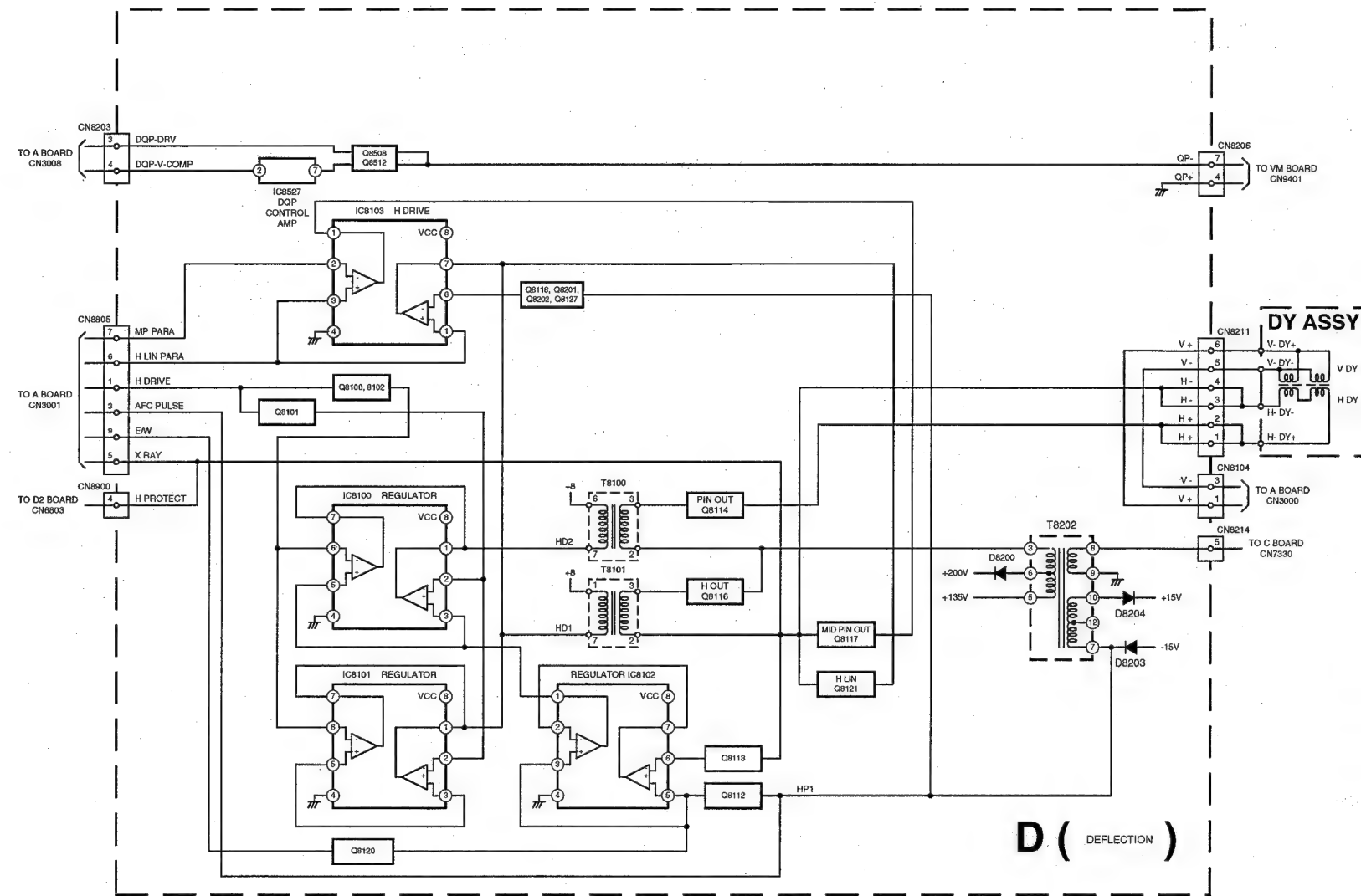
5-1. BLOCK DIAGRAMS (1)



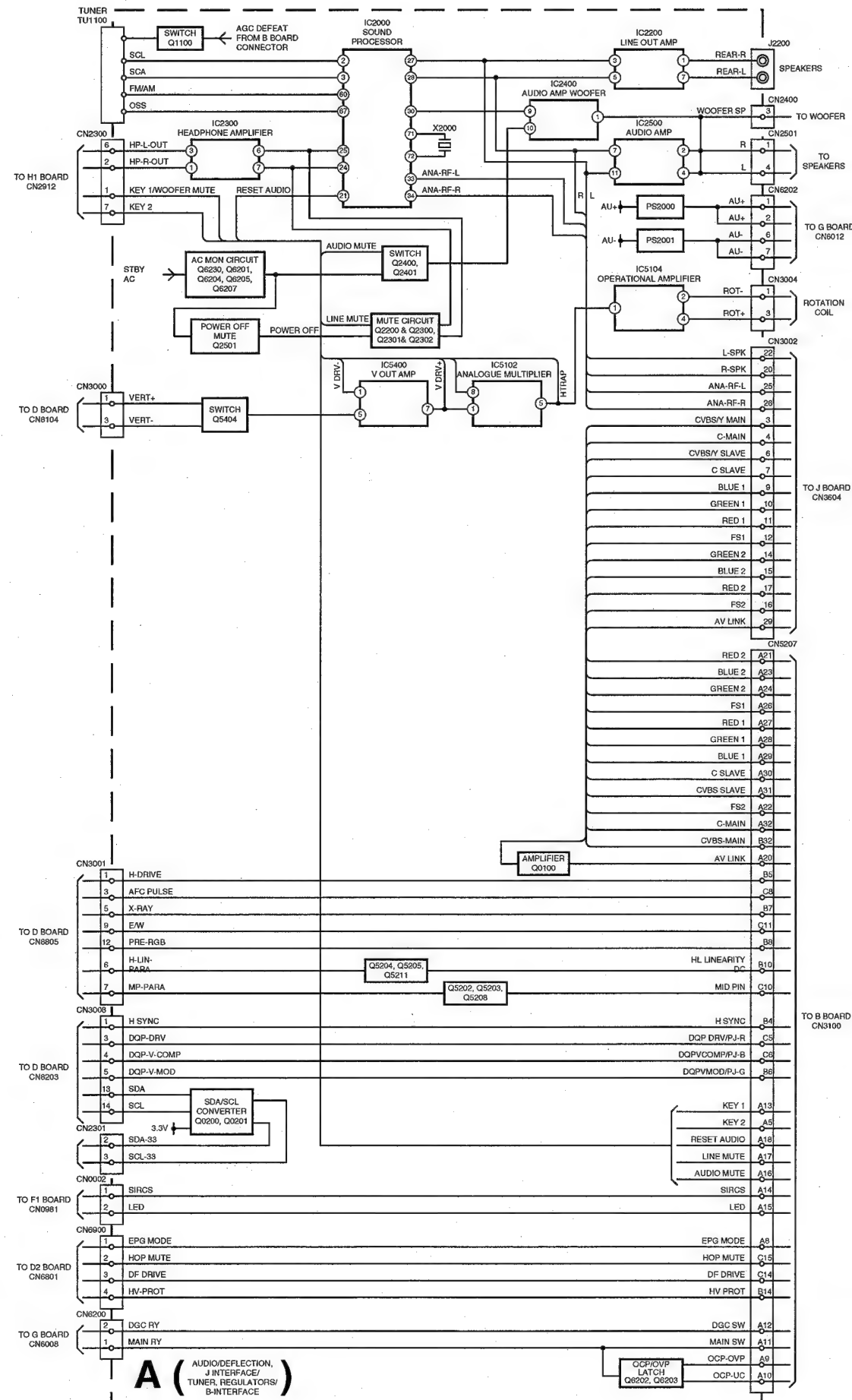
5-1. BLOCK DIAGRAMS (2)



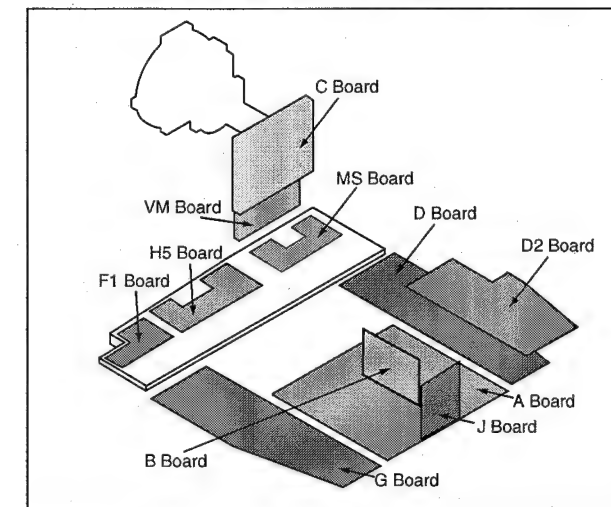
5-1. BLOCK DIAGRAMS (3)



5-1. BLOCK DIAGRAMS (4)



5-2. CIRCUIT BOARD LOCATION







5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :






- All capacitors are in μF unless otherwise noted.
- $\text{pF} : \mu\text{F}$ 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Electrical power rating : 1/4W


- Chip resistors are 1/10W
- All resistors are in ohms.
k = 1000 ohms, M = 1000,000 ohms

-  : nonflammable resistor.
-  : fusible resistor.
-  : internal component.
-  : panel designation or adjustment for repair.


- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital multimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerances.

-  : B + bus.
-  : B - bus.
-  : RF signal path.
-  : earth - ground.
-  : earth - chassis.

Reference Information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
		: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

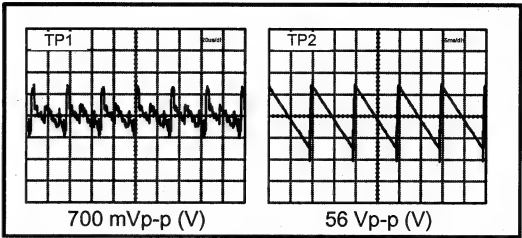
Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

Note : Les composants identifiés par une trame et par une marque  sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

~ A Board Semiconductor Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q1100	0	0	4.5	Q2202	0	0.4	0	Q2500	0.1	0.1	0.6	Q5101	0.8	1.4	6.8	Q5208	0	0	1.5
Q1300	2.7	2.1	8.4	Q2300	0	0	0.7	Q2501	0	0.6	0	Q5200	6.8	6.3	3.0	Q5209	0	0	1.5
Q1301	2.1	2.1	0	Q2301	0	0.4	0	Q2502	0	0	5.0	Q5201	0	0.4	3.0	Q5210	0	0	1.5
Q2000	0	0	4.7	Q2302	0	0.4	0	Q2503	0	0	5.0	Q5203	0	0.4	3.0	Q5211	0	0	1.5
Q2200	0	0	-1.6	Q2400	3.9	3.4	0	Q2504	5.0	5.0	0	Q5205	0	0.4	1.5	Q5404	0	12.1	0
Q2201	0	0.4	0	Q2401	0	0	4.7	Q5100	2.4	1.8	0	Q5207	0	0.4	3.0	Q6201	1.5	0.6	3.4
																Q6202	3.4	3.4	0
																Q6203	0	0	3.4
																Q6204	3.4	3.4	0
																Q6205	3.5	2.7	3.4
																Q6206	1.5	2.0	2.7
																Q6207	0	0	3.4

~ A Board Waveforms ~



~ A Board IC Voltage Table ~

IC Voltage Table			IC Voltage Table			IC Voltage Table			IC Voltage Table			IC Voltage Table		
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC2200	1	4.5	IC2300	6	0	IC2400	12	-4.0	IC5102	2	0	IC6202	4	1.3
	2	4.5		7	0		2	0		5	2.5		5	6.7
	3	4.5		8	0.5		5	0.9		6	2.5		4	1.3
	5	4.5	IC2400	1	0	IC2500	7	0	IC5104	8	2.2	IC6207	4	1.3
	6	4.5		2	-4.0		8	0		1	14.6		5	6.7
	7	4.5		3	10.0		9	0		3	-12.3		4	1.3
IC2300	1	4.0		5	0		10	0	IC5400	5	0	IC6212	4	5.1
	3	4.0		6	-13.2		11	0		6	15.7		5	0
	5	0.5		10	3.9		1	17.1						

~ A Board Location Table (A Side) ~

DIODE		D5405	D - 10	D6211	K - 4	IC2500	H - 3	IC6204	M - 4	
D2200	D - 3	D6201	J - 9	D6212	J - 9	IC5102	I - 10	IC6207	J - 10	
D2201	E - 3	D6203	L - 5	D6213	L - 8	IC5104	H - 10	IC6209	J - 8	
D5103	H - 10	D6204	K - 2	IC		IC5400	E - 10	IC6210	K - 4	
D5404	E - 11	D6210	L - 4	IC2400		J - 4	IC6202	L - 8	IC6212	L - 3

~ A Board Difference Table ~

Ref	KV-32XL90B	KV-32XL90E
TU1100	BTF-EF411	BTF-EC411

~ A Board Location Table (B Side) ~

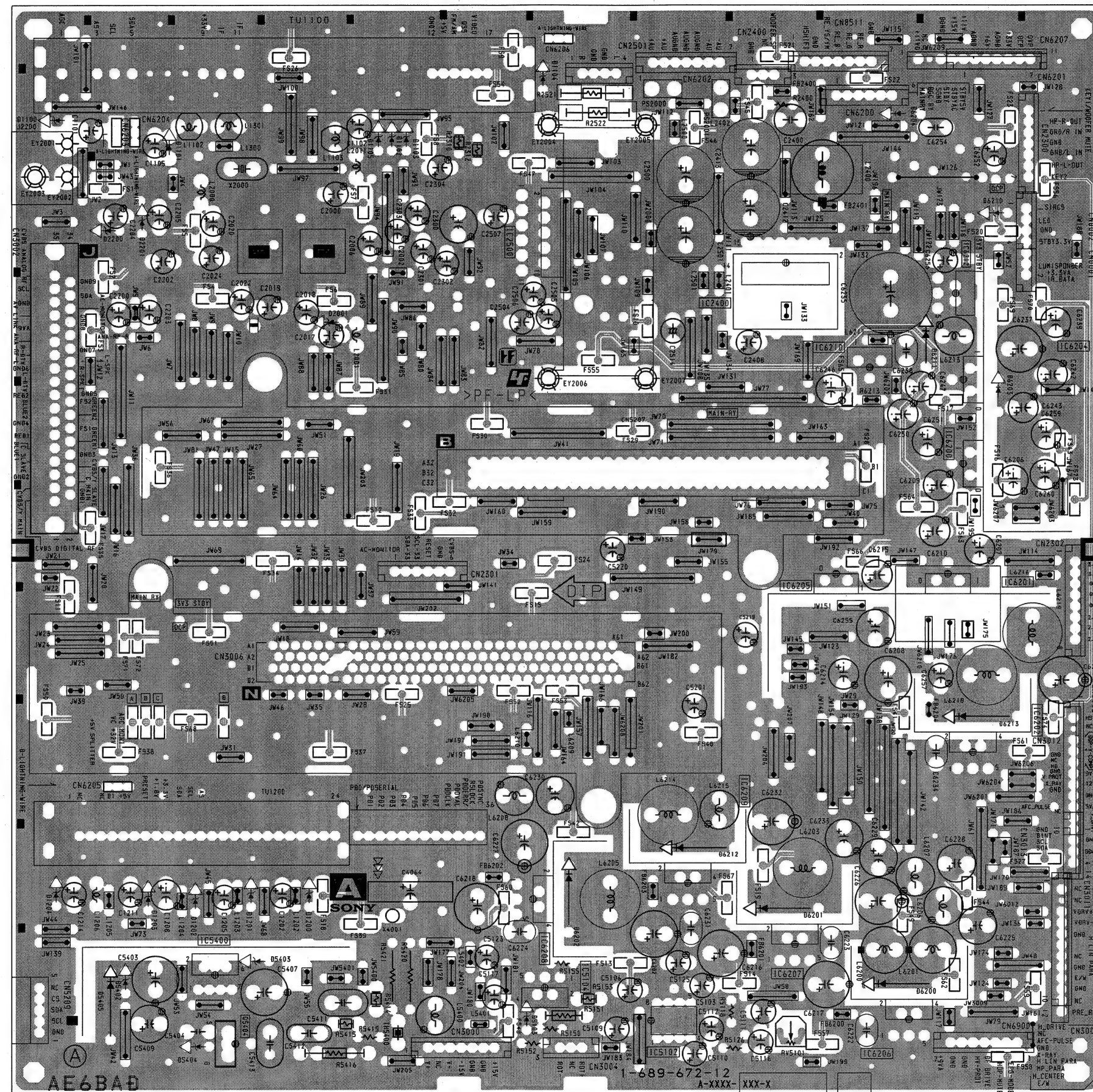
DIODE		D5206	G - 7	D6204	E - 2	IC2200	L - 4	IC6207	F - 9	Q1300	L - 2	Q2401	F - 4	Q5202	H - 4	Q5404	K - 10
D2200	L - 3	D5207	G - 6	D6205	E - 3	IC2300	J - 3	IC6209	F - 9	Q1301	K - 2	Q2500	H - 3	Q5203	H - 4	Q6201	E - 2
D2201	J - 4	D5208	H - 6	D6206	D - 3	IC2400	G - 4	IC6210	F - 4	Q2000	J - 3	Q2501	H - 3	Q5204	G - 7	Q6202	E - 3
D2202	J - 4	D5209	G - 7	D6207	D - 3	IC2500	H - 3	IC6211	E - 5	Q2200	I - 4	Q2502	H - 4	Q5205	F - 6	Q6203	E - 3
D2500	H - 3	D5210	G - 6	D6208	D - 3	IC5102	G - 10	IC6212	E - 4	Q2201	L - 3	Q2503	H - 4	Q5206	H - 7	Q6204	E - 3
D5100	G - 10	D5211	G - 6	D6210	D - 3	IC5104	H - 10	TRANSISTOR		Q2202	L - 3	Q2504	H - 4	Q5207	H - 6	Q6205	E - 2
D5104	H - 9	D5404	K - 10	D6213	D - 8	IC5400	K - 10	Q0100 K - 6		Q2300	I - 4	Q5100	G - 10	Q5208	G - 7	Q6206	E - 2
D5200	F - 7	D5405	L - 10	D6214	E - 4	IC6200	E - 5	Q0200 K - 7		Q2301	I - 4	Q5101	F - 10	Q5209	H - 6	Q6207	E - 2
D5202	F - 6	D6201	F - 9	IC		IC6202	D - 8	Q0201 K - 7		Q2302	J - 4	Q5200	F - 6	Q5210	G - 6	Q6208	E - 3
D5205	G - 7	D6203	D - 5	IC2000 K - 4		IC6204	E - 4	Q1100 M - 2		Q2400	F - 4	Q5201	F - 6	Q5211	G - 6	Q6209	E - 4





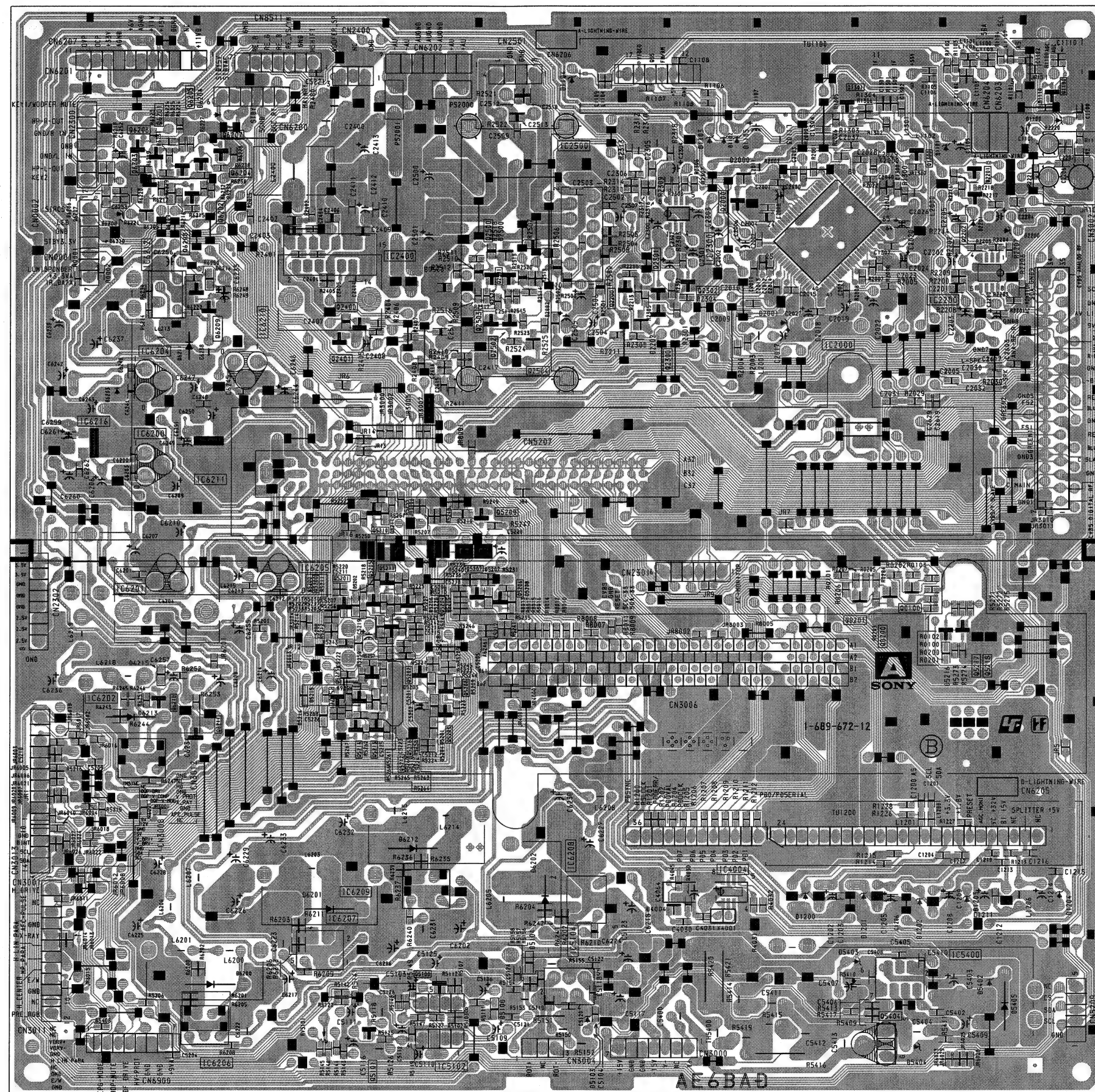
A B C D E F G H I J K L M N

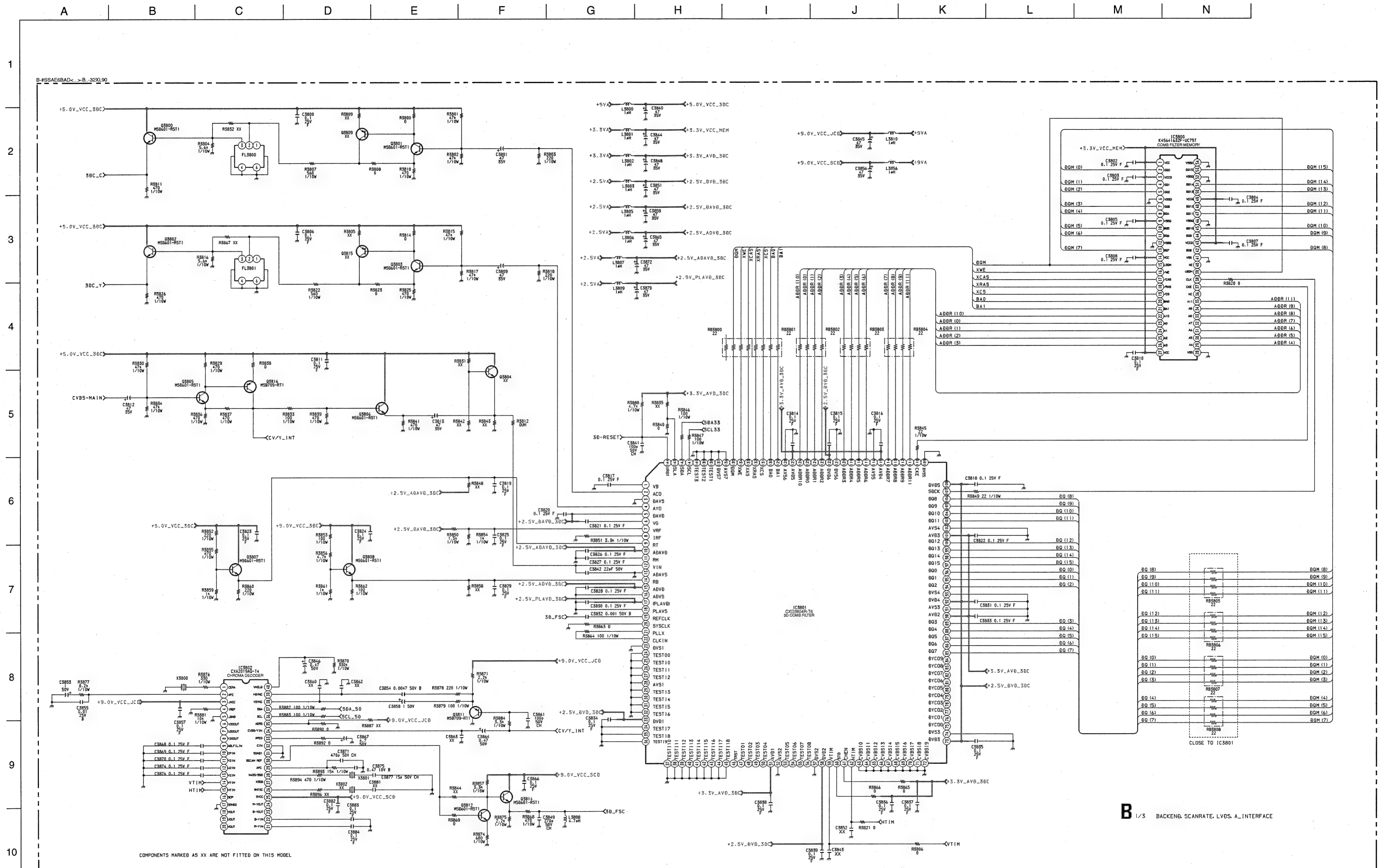
~ A Printed Wiring Board Conductor side A ~

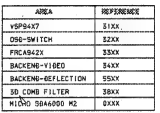


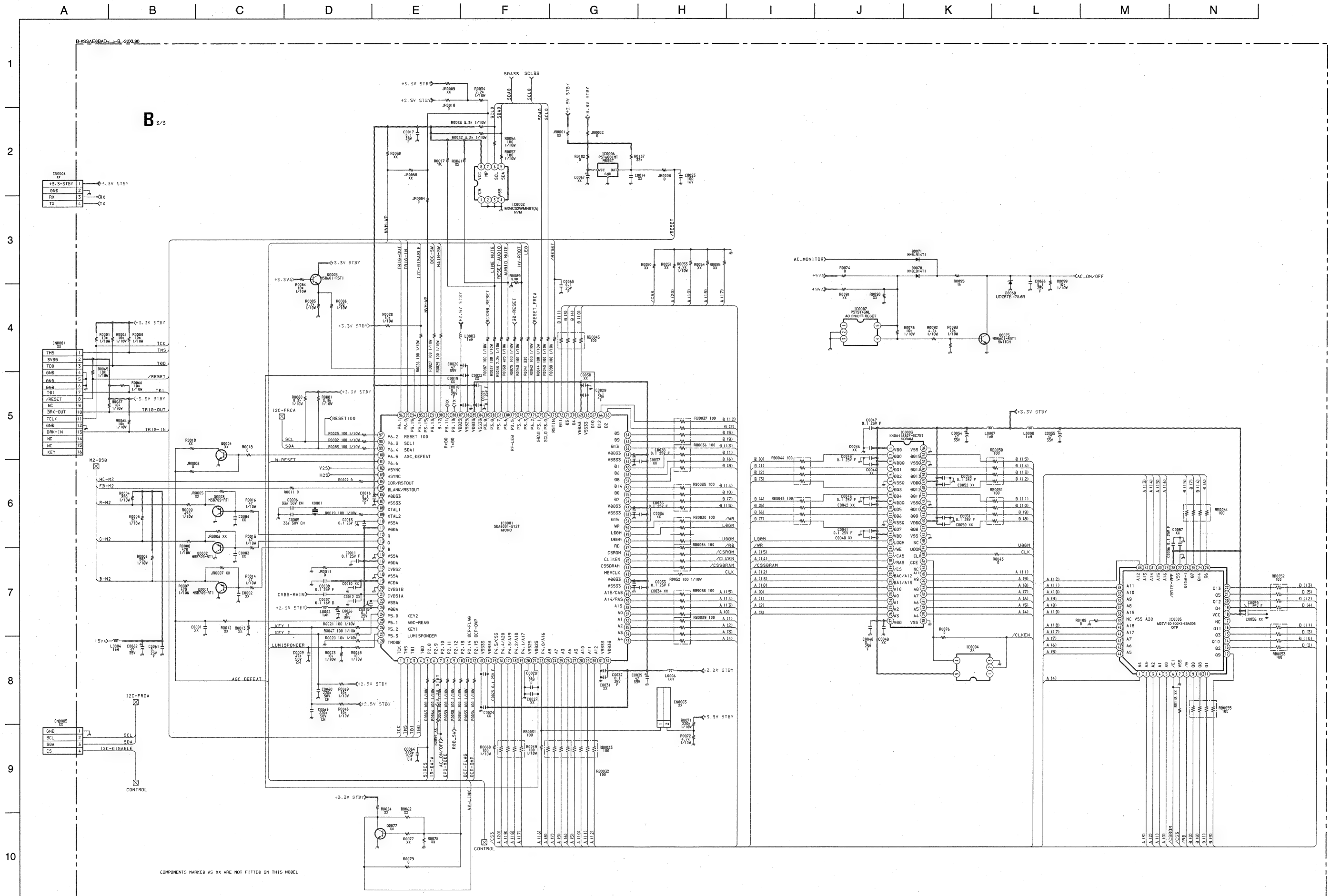
A B C D E F G H I J K L M N

~ A Printed Wiring Board Conductor side B ~

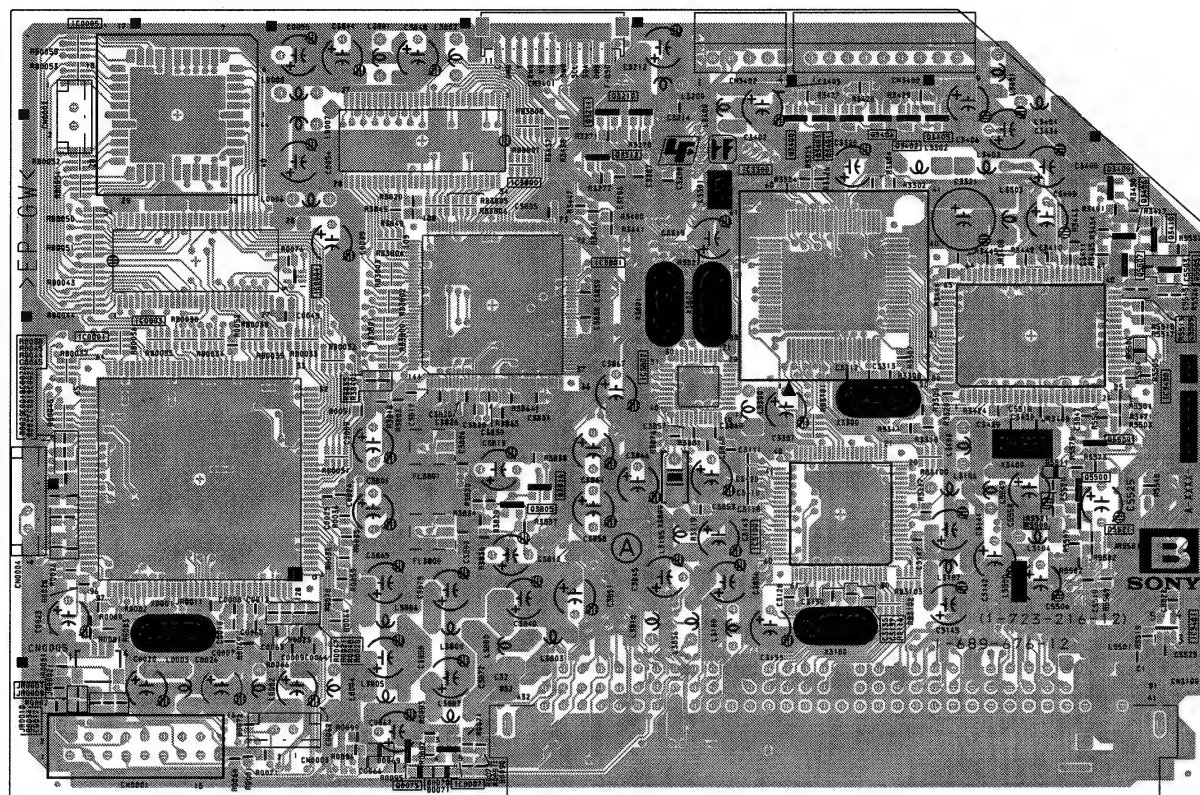




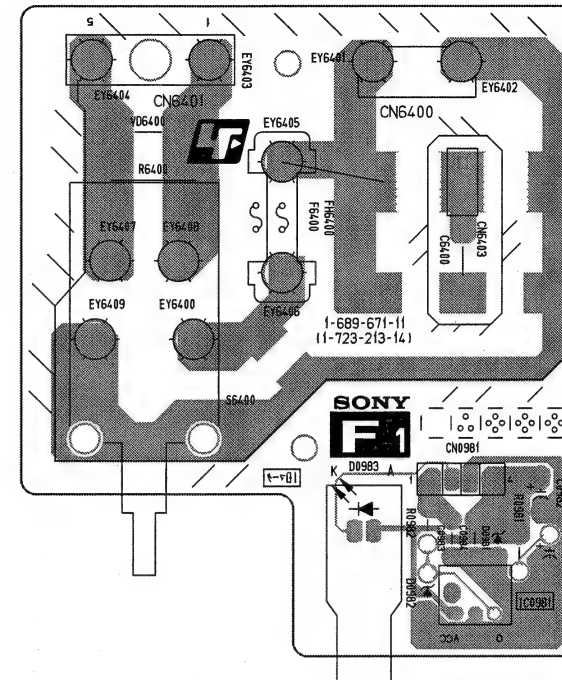




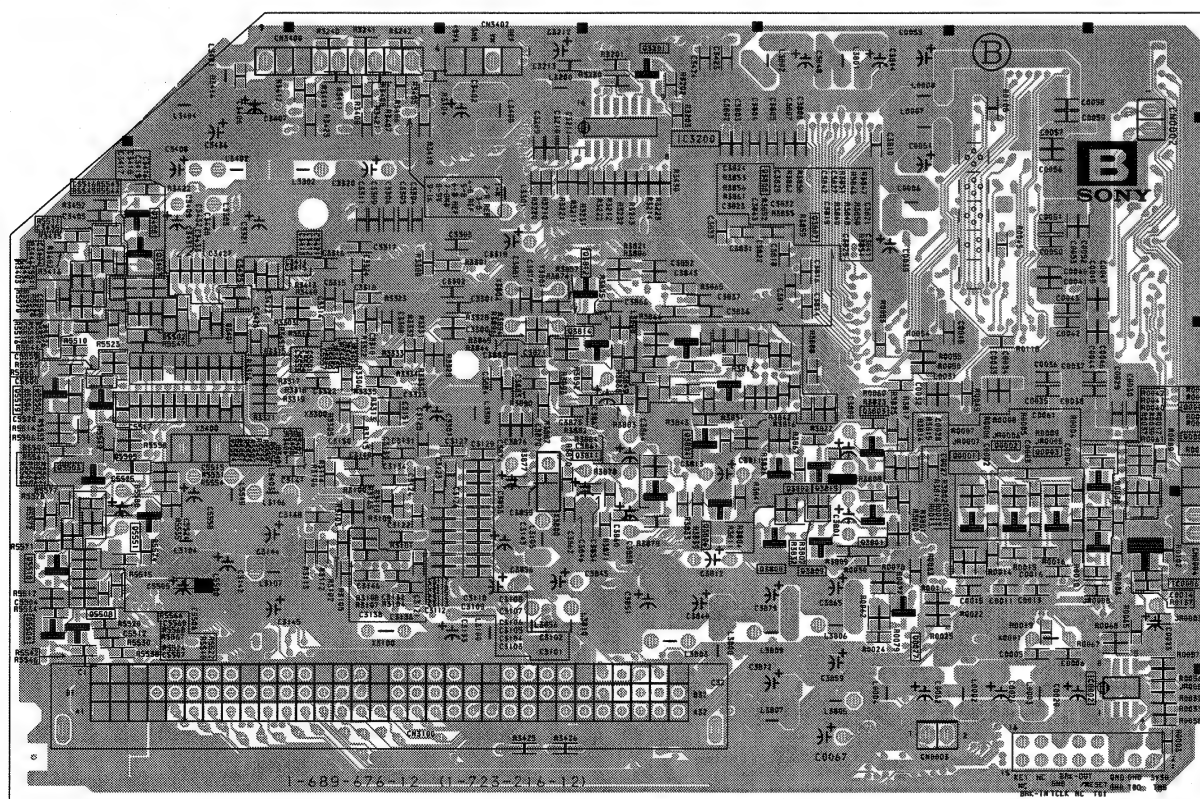
~ B Printed Wiring Board Conductor side A ~



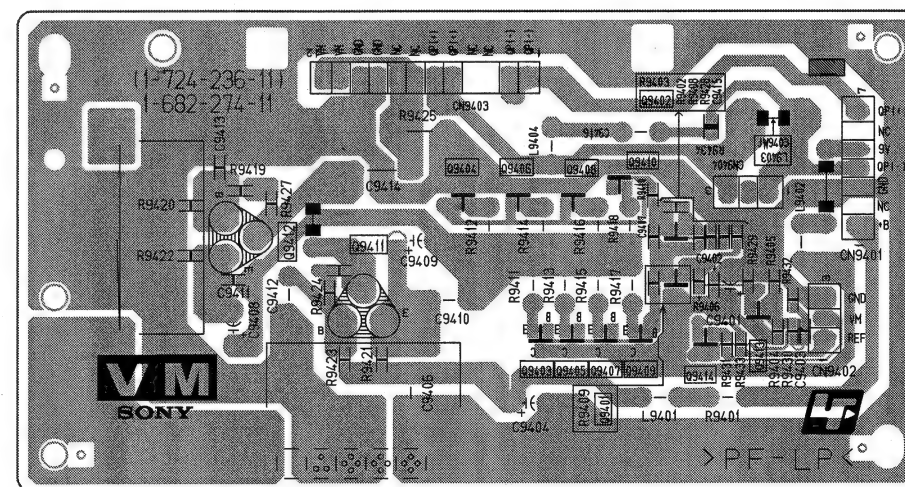
~ F1 Printed Wiring Board Conductor side ~



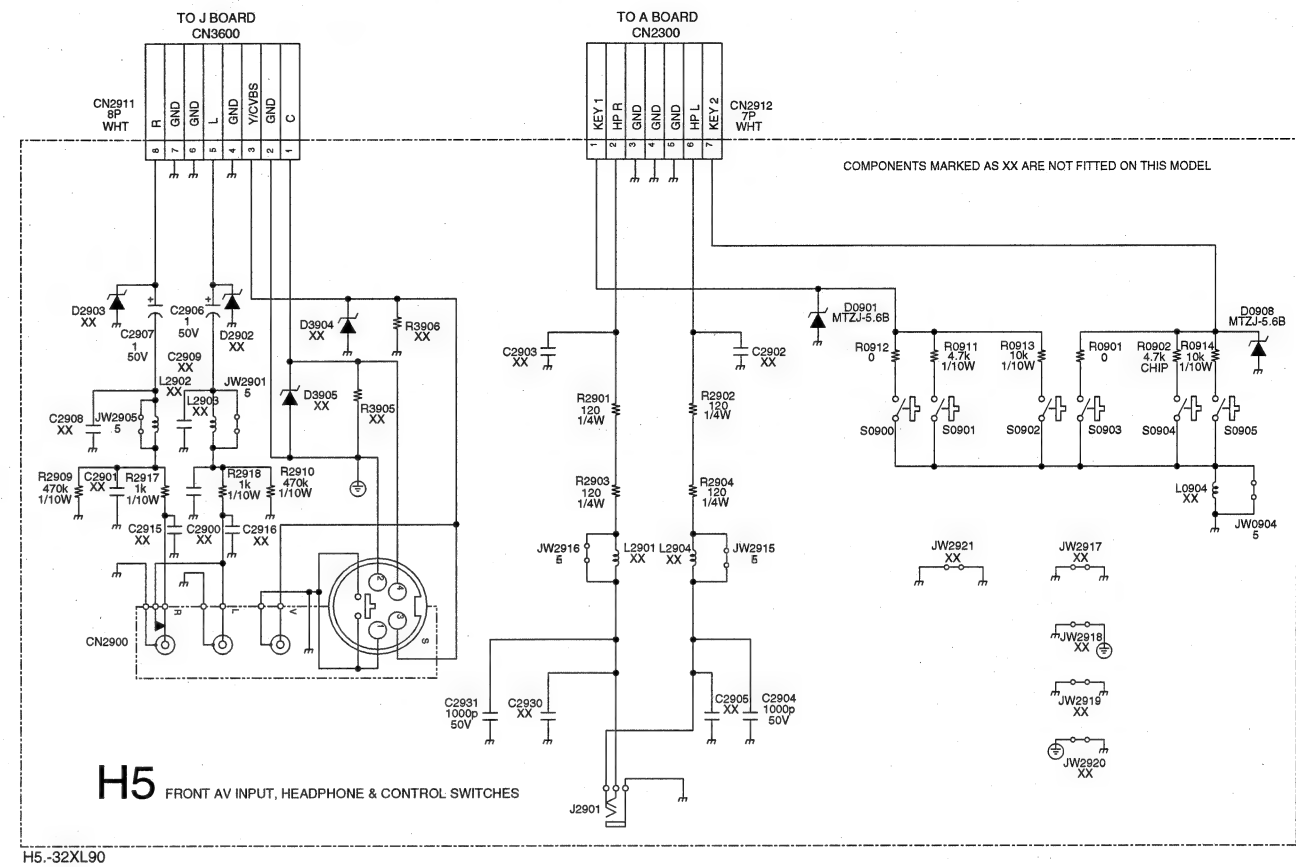
~ B Printed Wiring Board Conductor side B ~



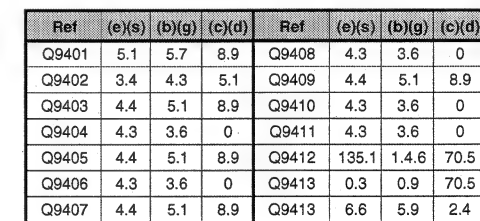
~ VM Printed Wiring Board Conductor side ~



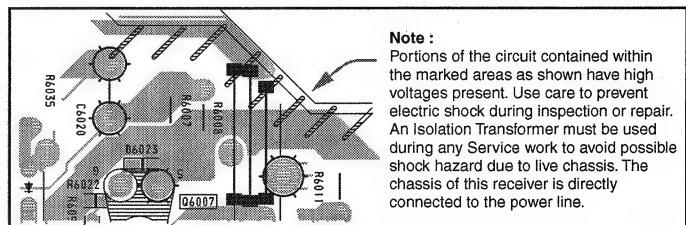
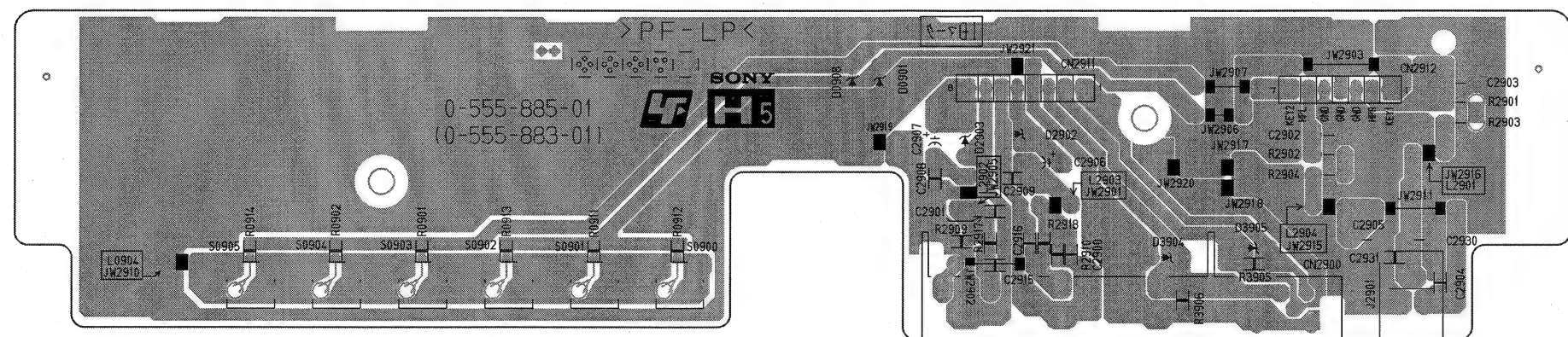
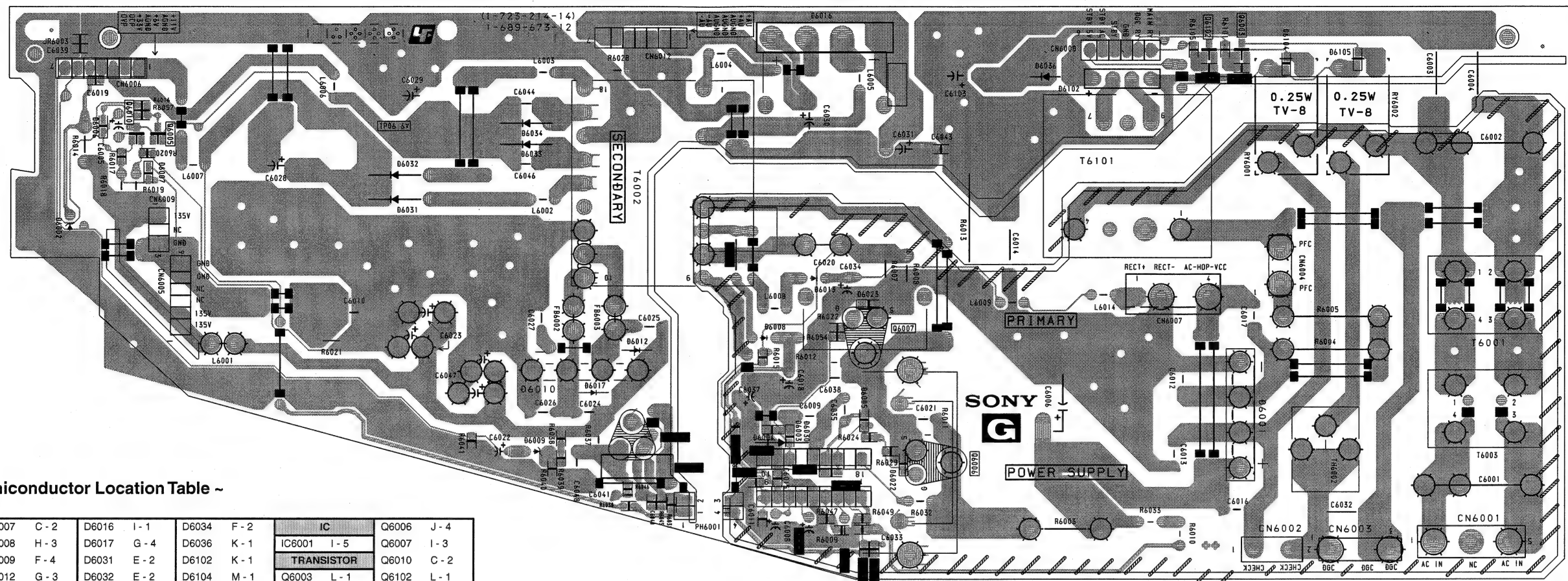
~ H5 Board Schematic Diagram [Front AV Input, Headphone and Control Switches] ~



~ VM Board Voltage Table ~

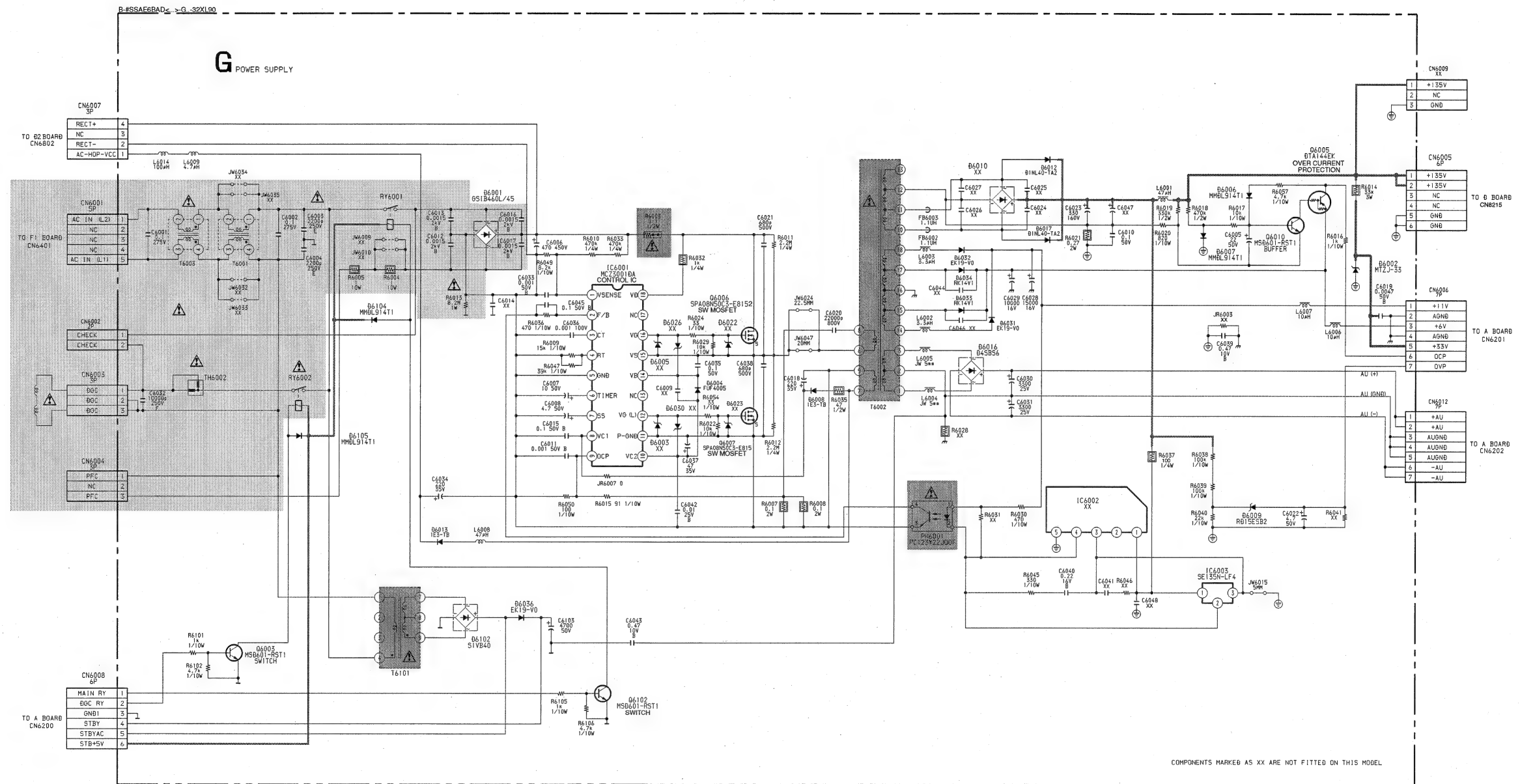


A B C D E F G H I J K L M N



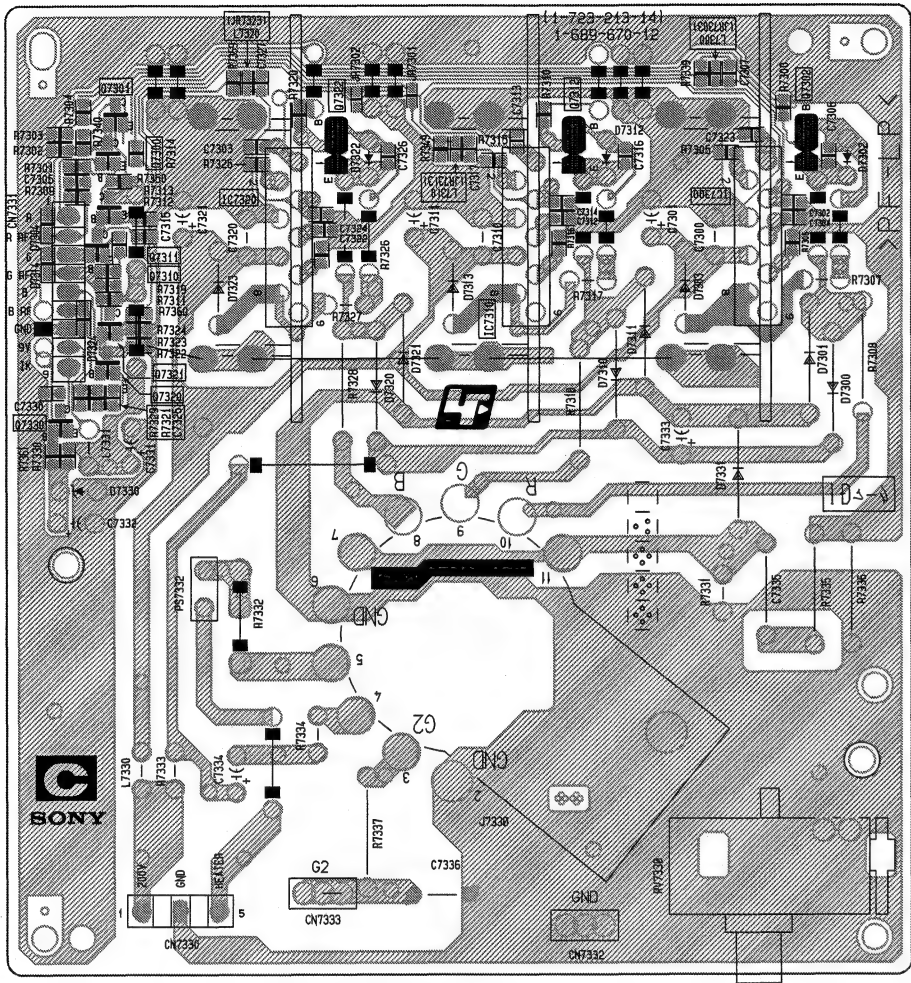
A B C D E F G H I J K L M N

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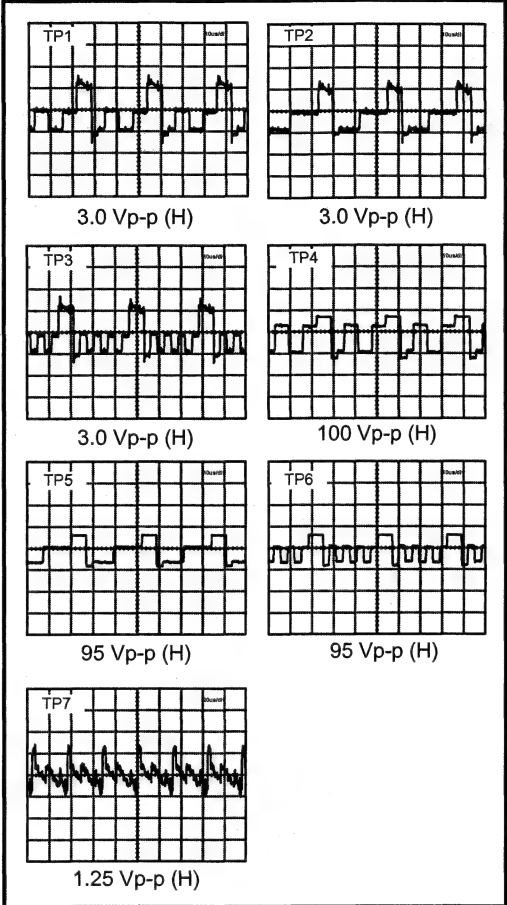


~ G Board Schematic Diagram [Power Supply] ~

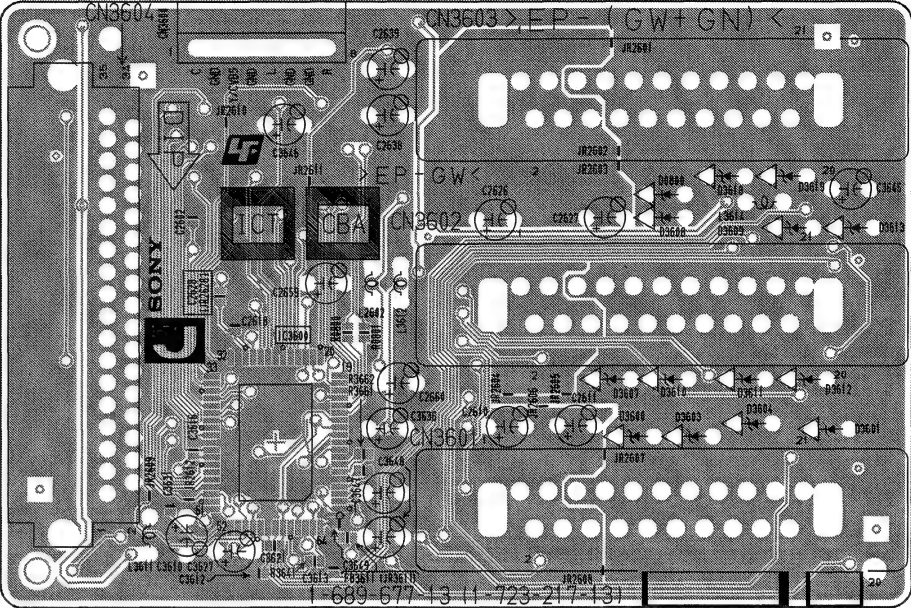
~ C Printed Wiring Board Conductor side ~



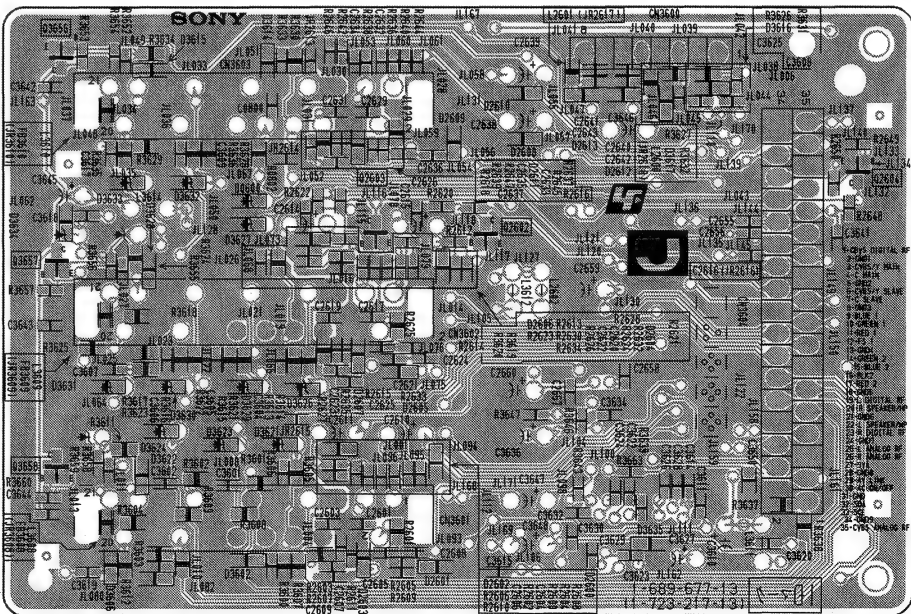
~ C Board Waveforms ~



~ J Printed Wiring Board Conductor side A ~



~ J Printed Wiring Board Conductor side B ~

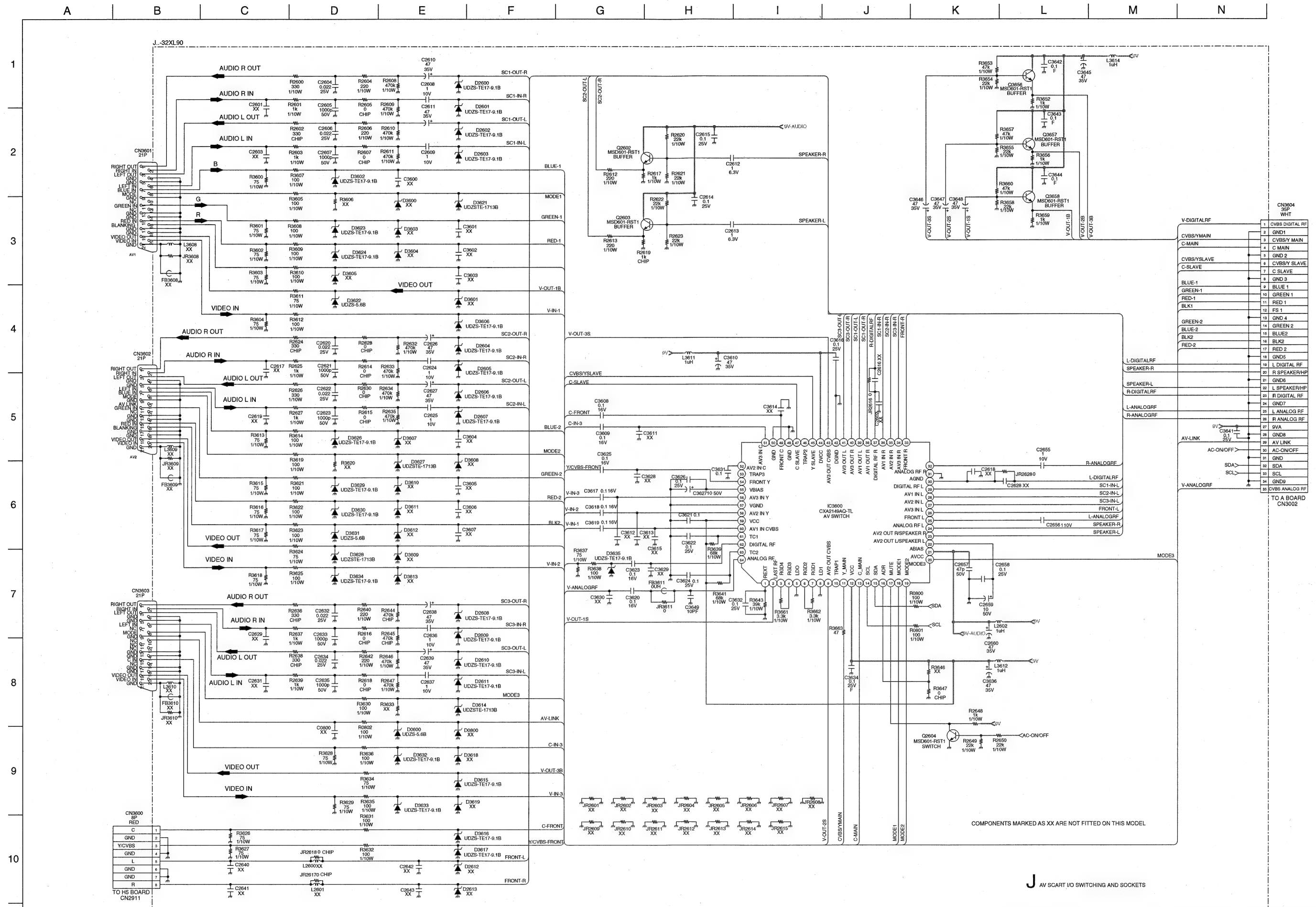


~ C Board Semiconductor Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q7300	7.5	6.9	2.4	Q7312	149.5	149.56	3.8
Q7301	1.8	2.4	8.9	Q7321	1.7	2.3	8.9
Q7302	145.9	147.8	4.0	Q7322	148.4	150.6	3.8
Q7310	7.6	7.0	2.2	Q7330	3.6	3.2	0
Q7311	1.6	2.2	8.9				

~ C Board IC Voltage Table ~

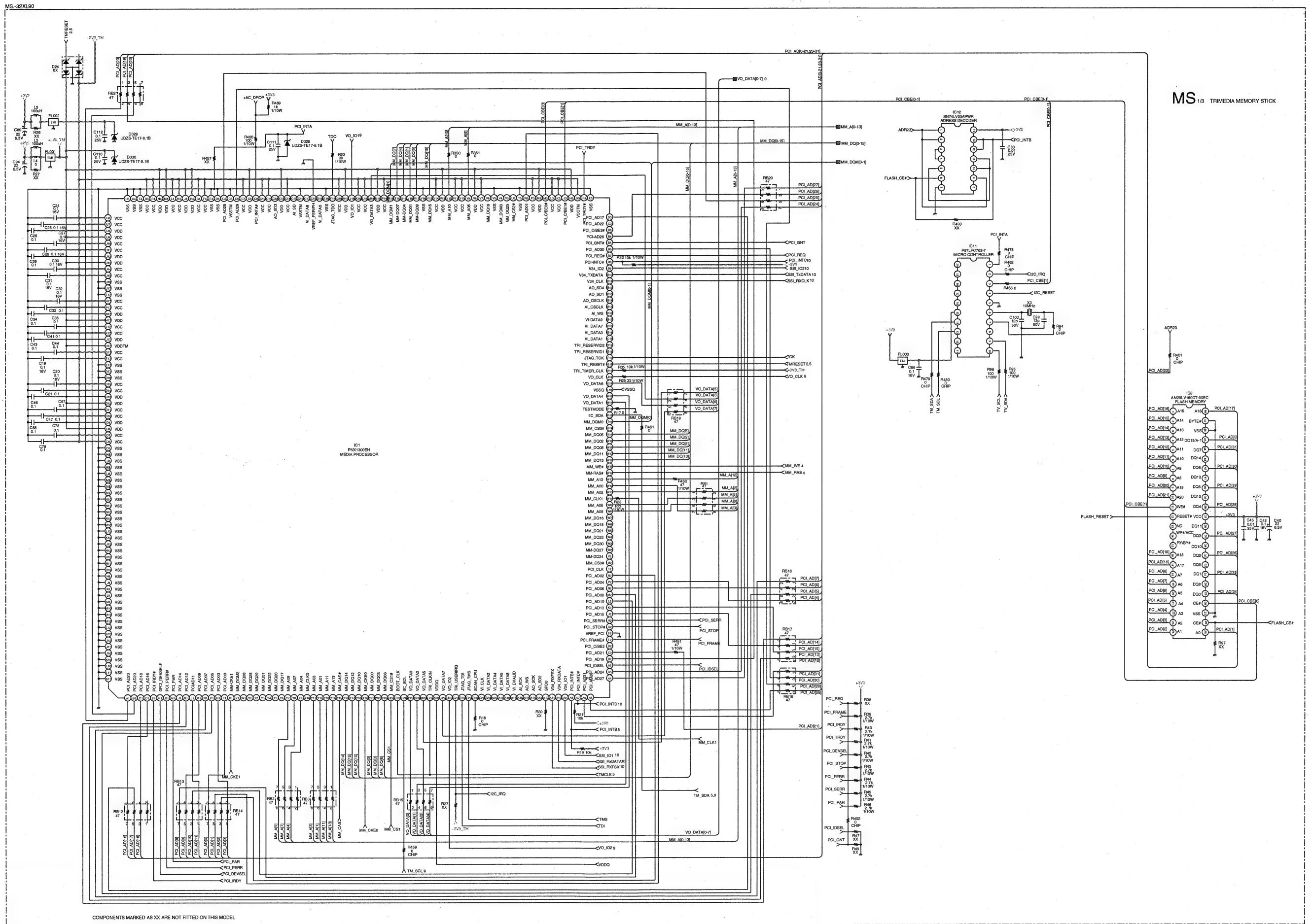
IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC7300	1	5.3
	2	21.9
	3	1.9
	5	5.9
	6	205.4
	8	147.6
IC7310	1	5.1
	2	0
	3	1.7
	5	5.6
	6	205.4
	8	149.5
IC7320	1	5.1
	2	0
	3	1.8
	5	4.8
	6	205.4
	8	150.4

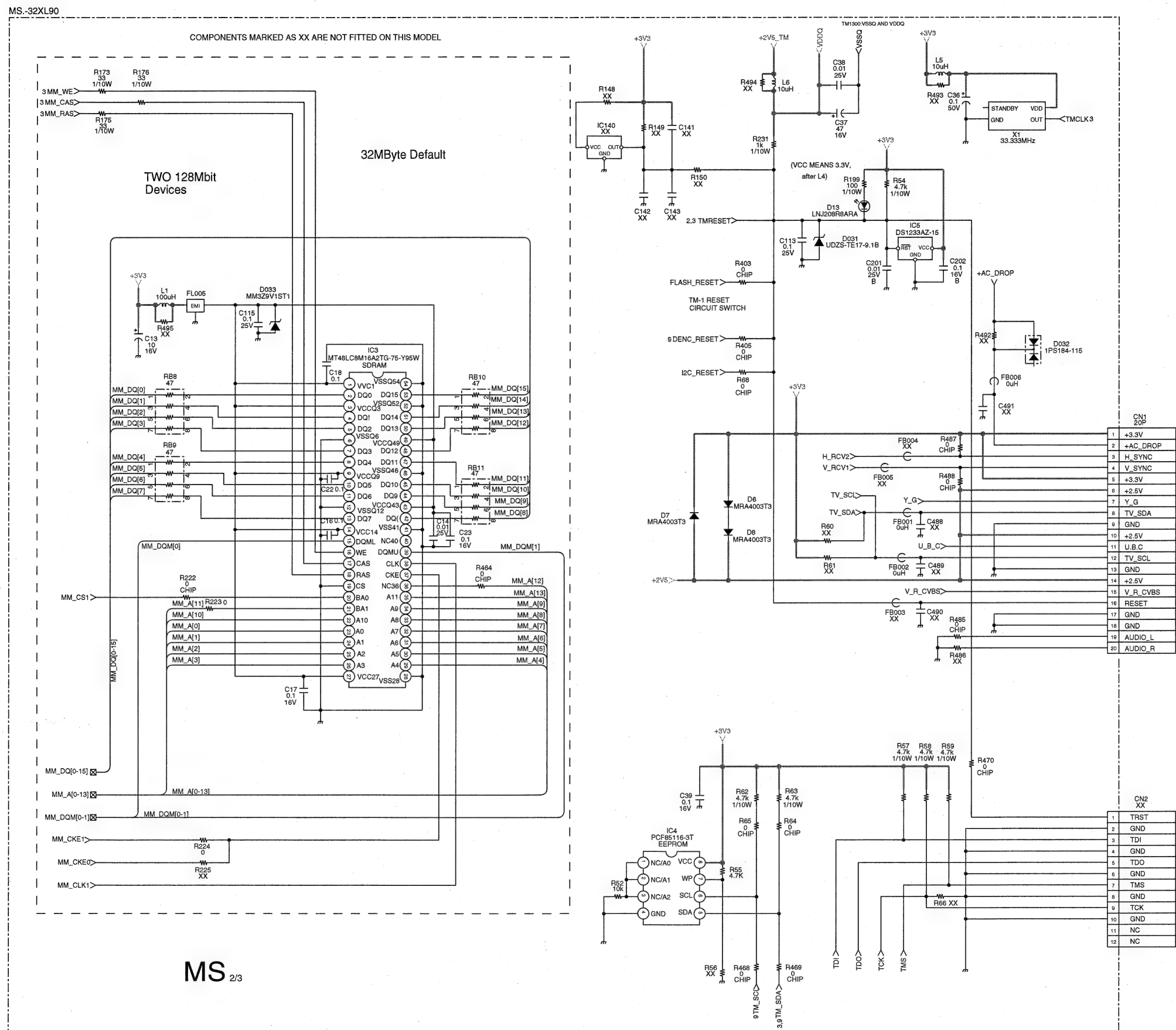


~ J Board Schematic Diagram [AV Scart I/O Switching and Sockets] ~

A B C D E F G H I J K L M N

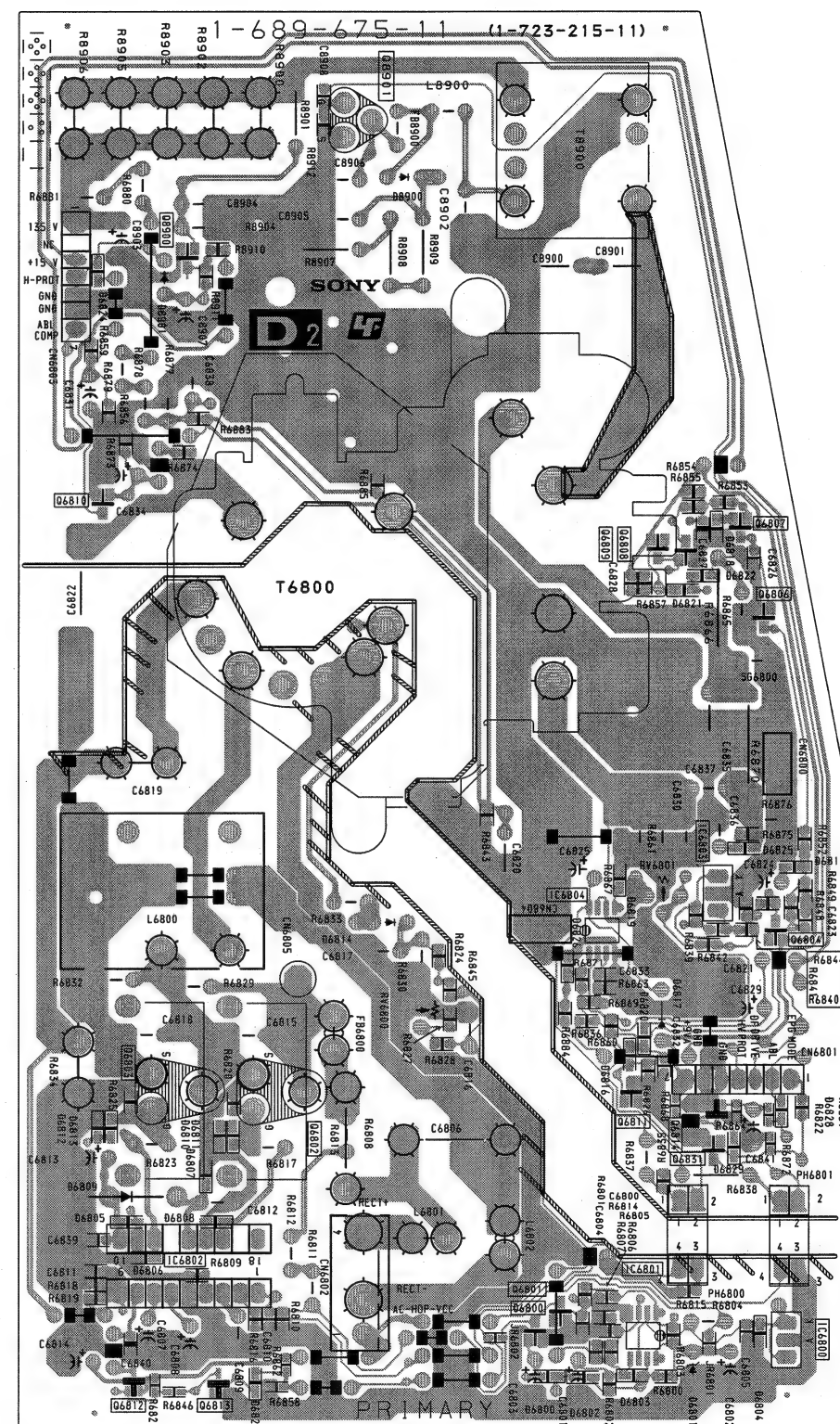
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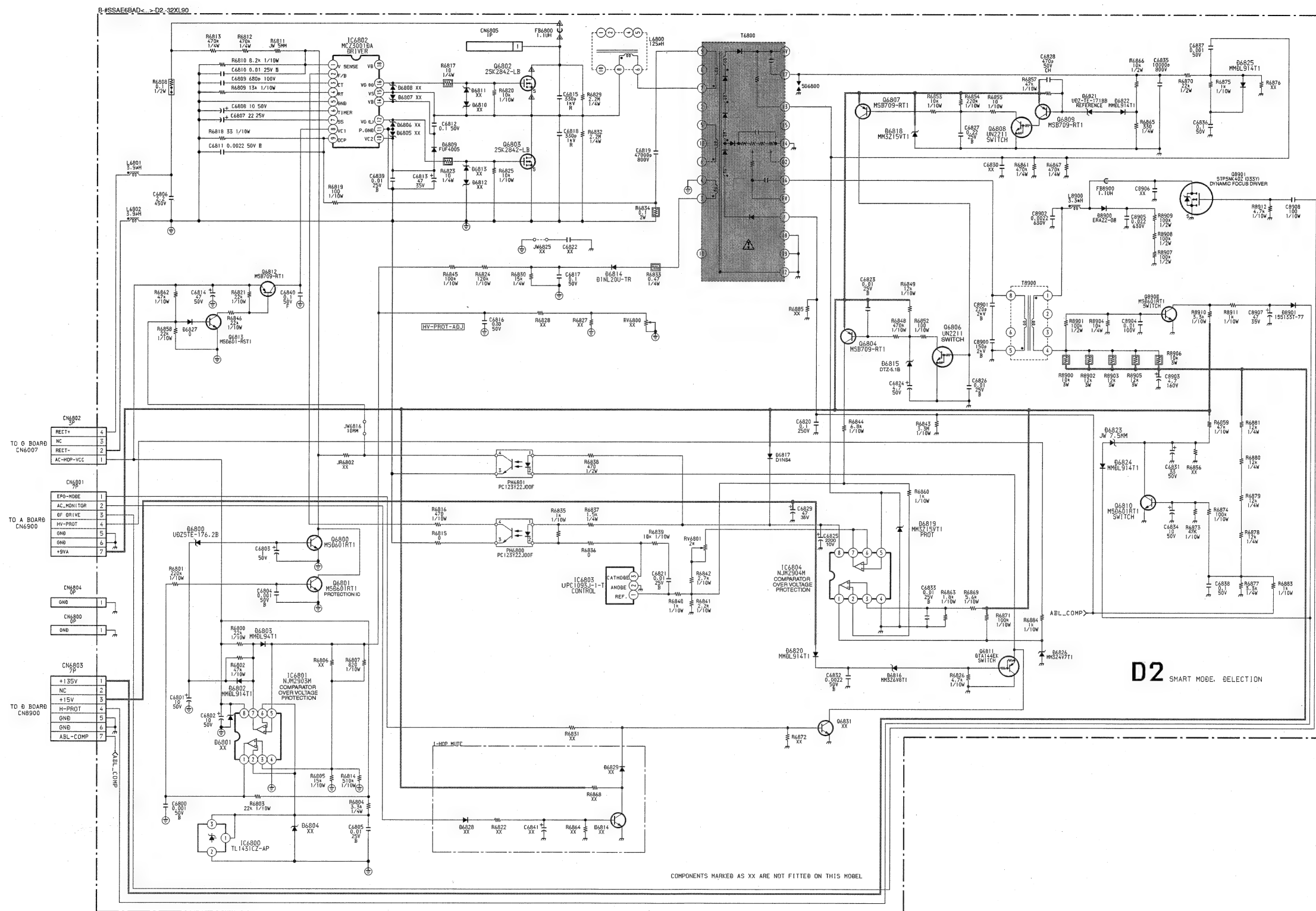
The image shows a top-down view of a Sony MS-1000 circuit board. The board is populated with numerous electronic components, including resistors, capacitors, and integrated circuits (ICs). Key labels and markings include:

- SONY** and **MS-1000** branding.
- Part numbers: **1-860-566-12** and **1-723-566-12**.
- Component labels: **IC1**, **IC2**, **IC3**, **IC4**, **IC5**, **IC6**, **IC7**, **IC8**, **IC9**, **IC10**, **IC11**, **IC12**, **IC13**, **IC14**, **IC15**, **IC16**, **IC17**, **IC18**, **IC19**, **IC20**, **IC21**, **IC22**, **IC23**, **IC24**, **IC25**, **IC26**, **IC27**, **IC28**, **IC29**, **IC30**, **IC31**, **IC32**, **IC33**, **IC34**, **IC35**, **IC36**, **IC37**, **IC38**, **IC39**, **IC40**, **IC41**, **IC42**, **IC43**, **IC44**, **IC45**, **IC46**, **IC47**, **IC48**, **IC49**, **IC50**, **IC51**, **IC52**, **IC53**, **IC54**, **IC55**, **IC56**, **IC57**, **IC58**, **IC59**, **IC60**, **IC61**, **IC62**, **IC63**, **IC64**, **IC65**, **IC66**, **IC67**, **IC68**, **IC69**, **IC70**, **IC71**, **IC72**, **IC73**, **IC74**, **IC75**, **IC76**, **IC77**, **IC78**, **IC79**, **IC80**, **IC81**, **IC82**, **IC83**, **IC84**, **IC85**, **IC86**, **IC87**, **IC88**, **IC89**, **IC90**, **IC91**, **IC92**, **IC93**, **IC94**, **IC95**, **IC96**, **IC97**, **IC98**, **IC99**, **IC100**.
- Other markings: **EP-GW**, **1-723-566-12**, **1-860-566-12**.

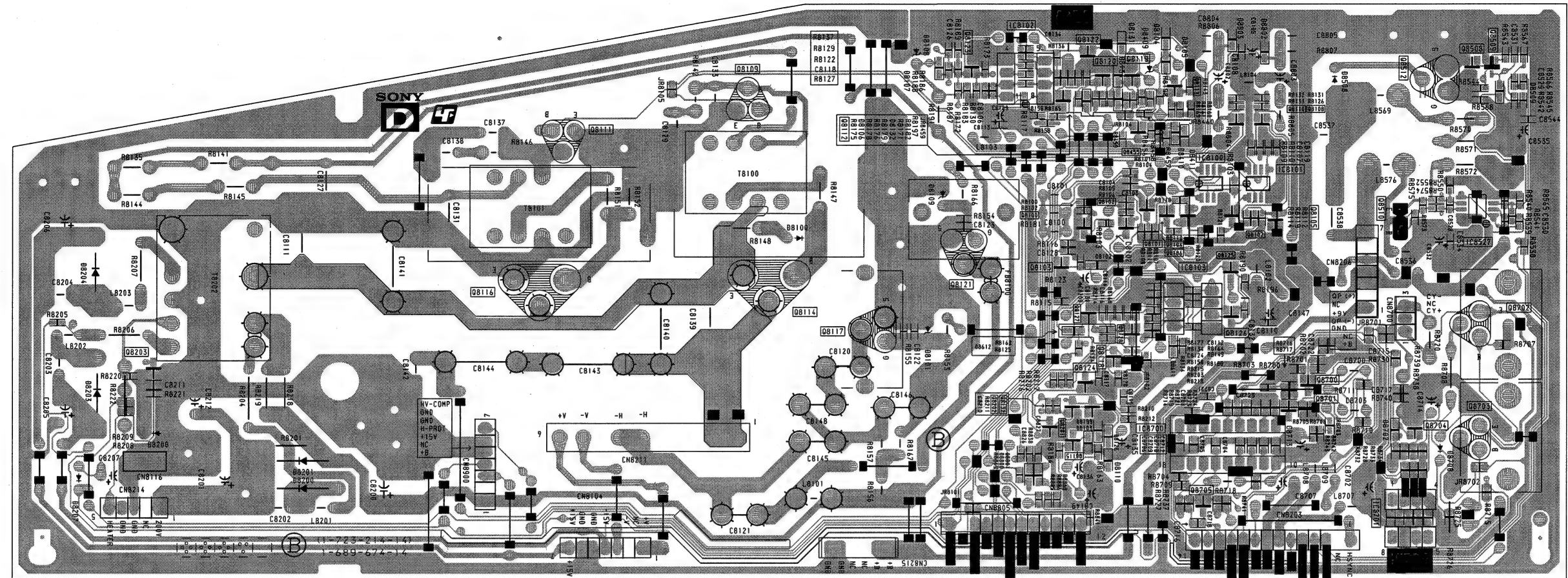


~ D2 Printed Wiring Board Conductor side ~

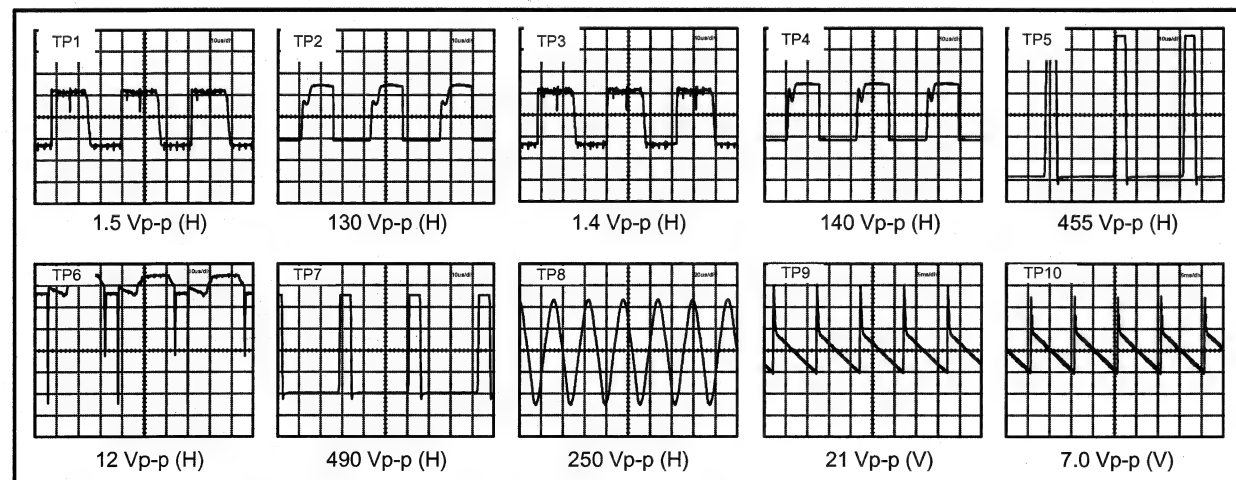
A B C D E F G H I J K L M N



~ D2 Board Schematic Diagram [Smart Mode Deflection] ~



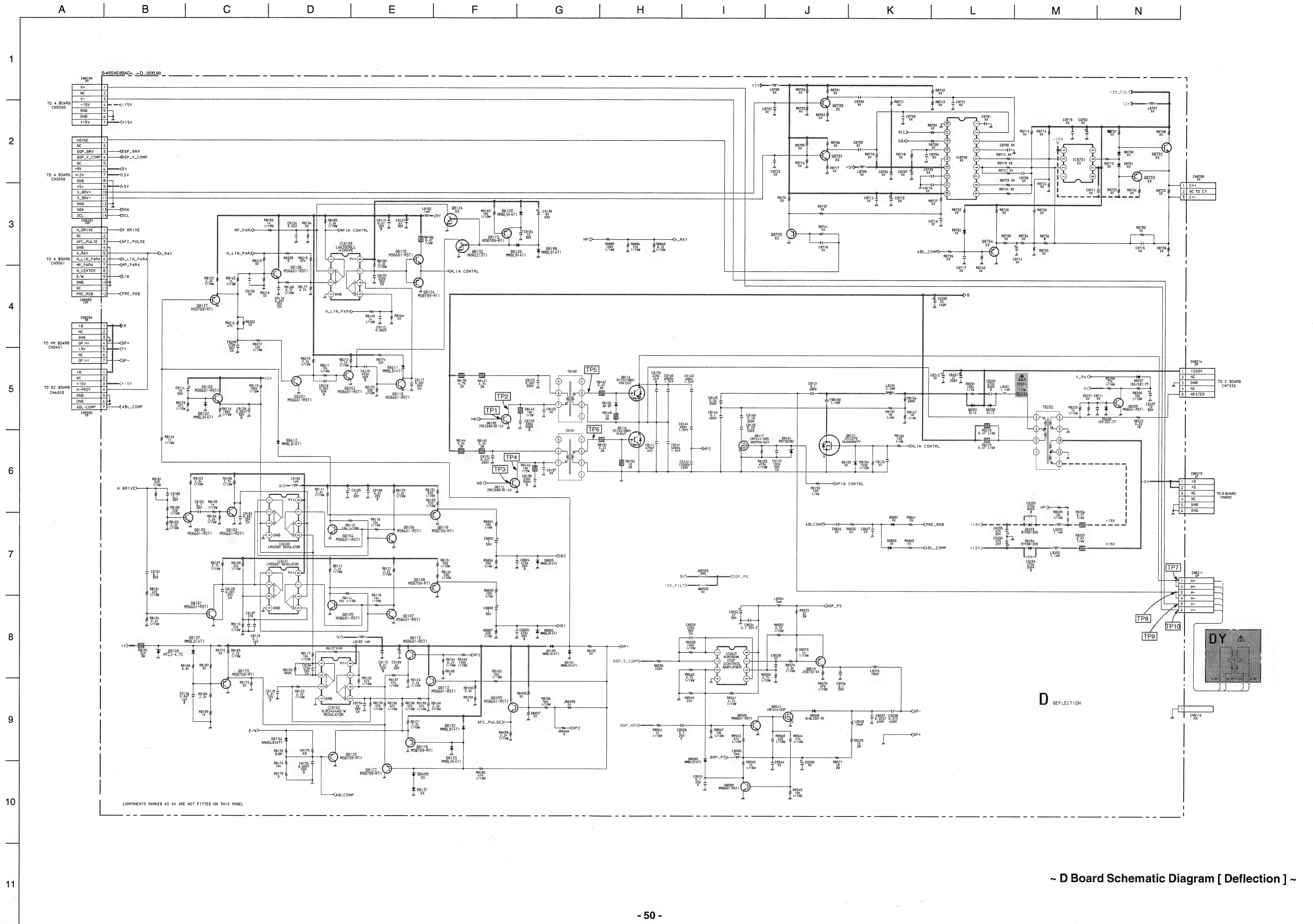
~ D Board IC Voltage Table ~



~ D Board Semiconductor Voltage Table ~

IC Voltage Table			IC Voltage Table		
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC8100	1	0.3	IC8102	1	3.8
	2	3.9		2	0.4
	3	3.9		3	0.4
	5	3.9		5	0.4
	6	3.6		6	0.4
	7	0.4		7	0.4
IC8101	1	0.3	IC8103	1	2.5
	2	3.9		2	1.7
	3	3.2		3	1.7
	5	3.2		5	0.9
	6	3.6		6	3.6
	7	3.5		7	1.1

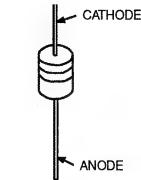
Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q8100	0	0	3.0	Q8110	2.4	3.7	0	Q8125	1.2	1.1	8.9
Q8101	0	0	3.9	Q8111	0	0	62.9	Q8126	1.2	1.1	0
Q8102	0	1.0	3.6	Q8113	0.4	0	8.9	Q8127	1.1	1.5	0
Q8103	3.9	0	8.9	Q8115	8.6	8.9	0	Q8128	3.4	1.5	8.9
Q8104	0	0.3	3.7	Q8118	0	0	3.6	Q8132	0	0	3.6
Q8105	0	3.5	0.3	Q8119	1.2	0.5	0	Q8201	0	0.6	3.7
Q8106	0	0.3	3.9	Q8120	1.3	0.5	0	Q8202	0	0.9	3.7
Q8107	0	0.3	3.9	Q8121	0	1.2	135.2	Q8455	1.2	1.7	8.9
Q8108	2.4	0.3	0	Q8122	0.5	1.4	0	Q8510	8.1	7.5	0.4
Q8109	0	0	58.0	Q8123	0.5	1.3	0	Q8512	0	5.3	32.6



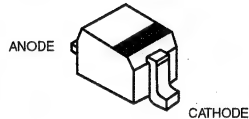
~ D Board Schematic Diagram [Deflection] ~

5-4. SEMICONDUCTORS

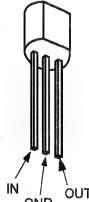
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1SS133T-77
1SS83
D1NL20U
D1NL20U-TR
D1NL40-TA2
EL1Z
ERA22-08
GP08D
FUF4005
HZS9.1NB2
MTZJ-33B
MTZJ-4.7C



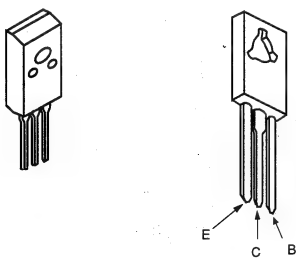
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MM3Z4V7T1
MM3Z6V8T1
MM3Z9V1ST1
MM3Z15VT1
MMDL914T1
UDZSTE-1713B
UDZSTE-1718B
UDZSTE-173.9B
UDZSTE-175.6B
UDZSTE-176.2B
UDZSTE-179.1B
UDZSTE-17-7.5B



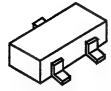
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2SB734-34
2SC2688(5)-LK



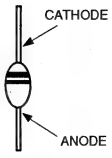
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2SA1037AK-T146
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MSB709-RT1
MSD601-RST1
M1MA152WA-T1
UN2111



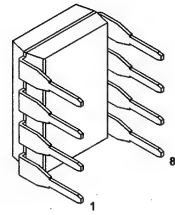
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IRF614-005
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IRF620
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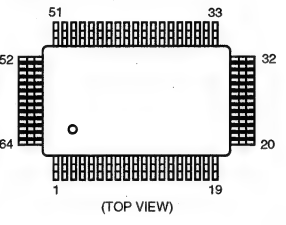
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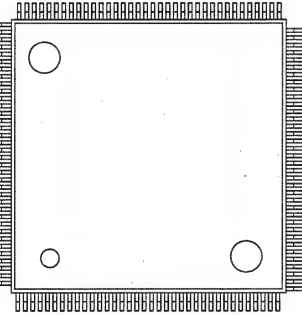
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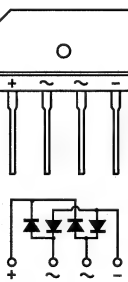
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CXA2149AQ-TL



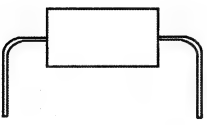
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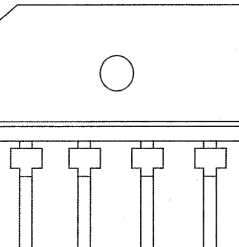
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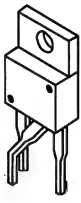
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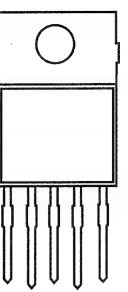
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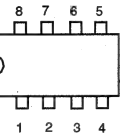
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ST2310DHI



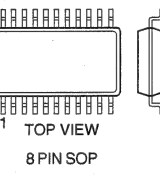
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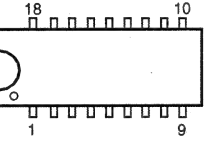
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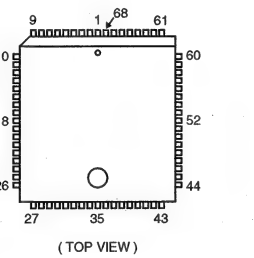
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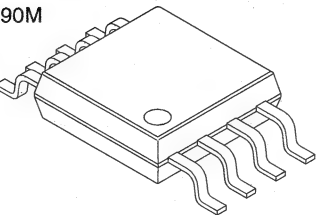
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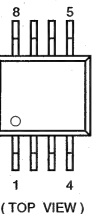
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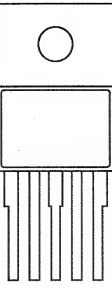
NJM290M



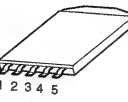
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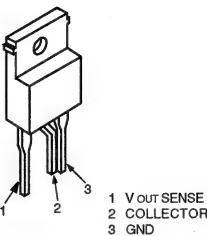
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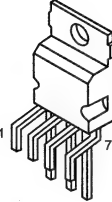
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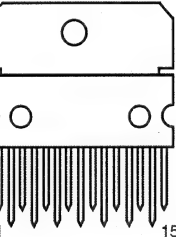
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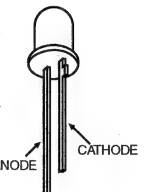
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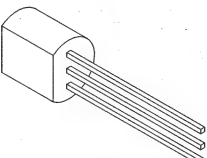
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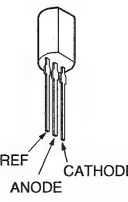
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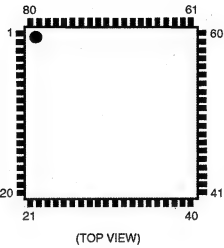
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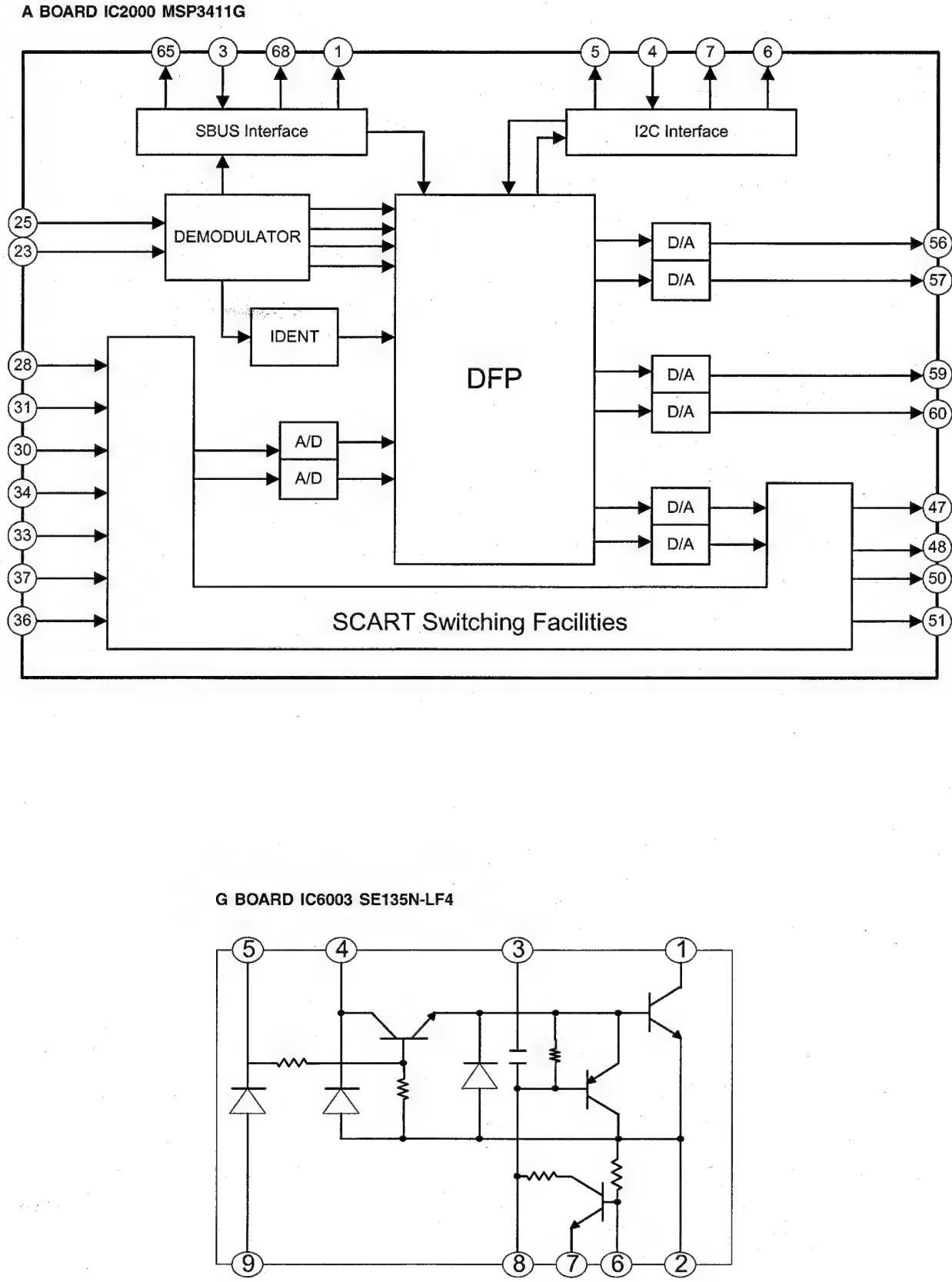
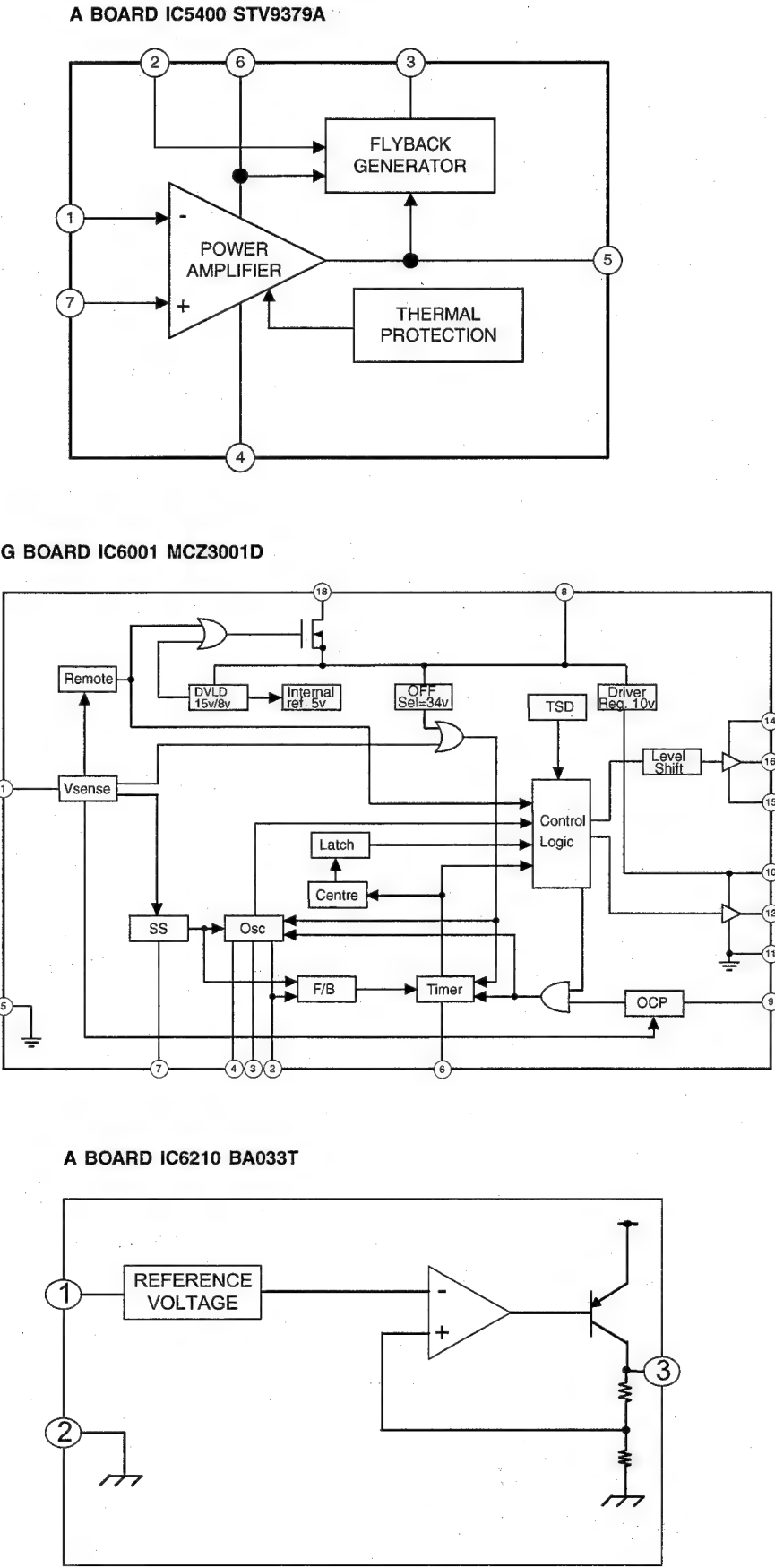
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VSP9417BC3G



5-5. IC BLOCK DIAGRAMS



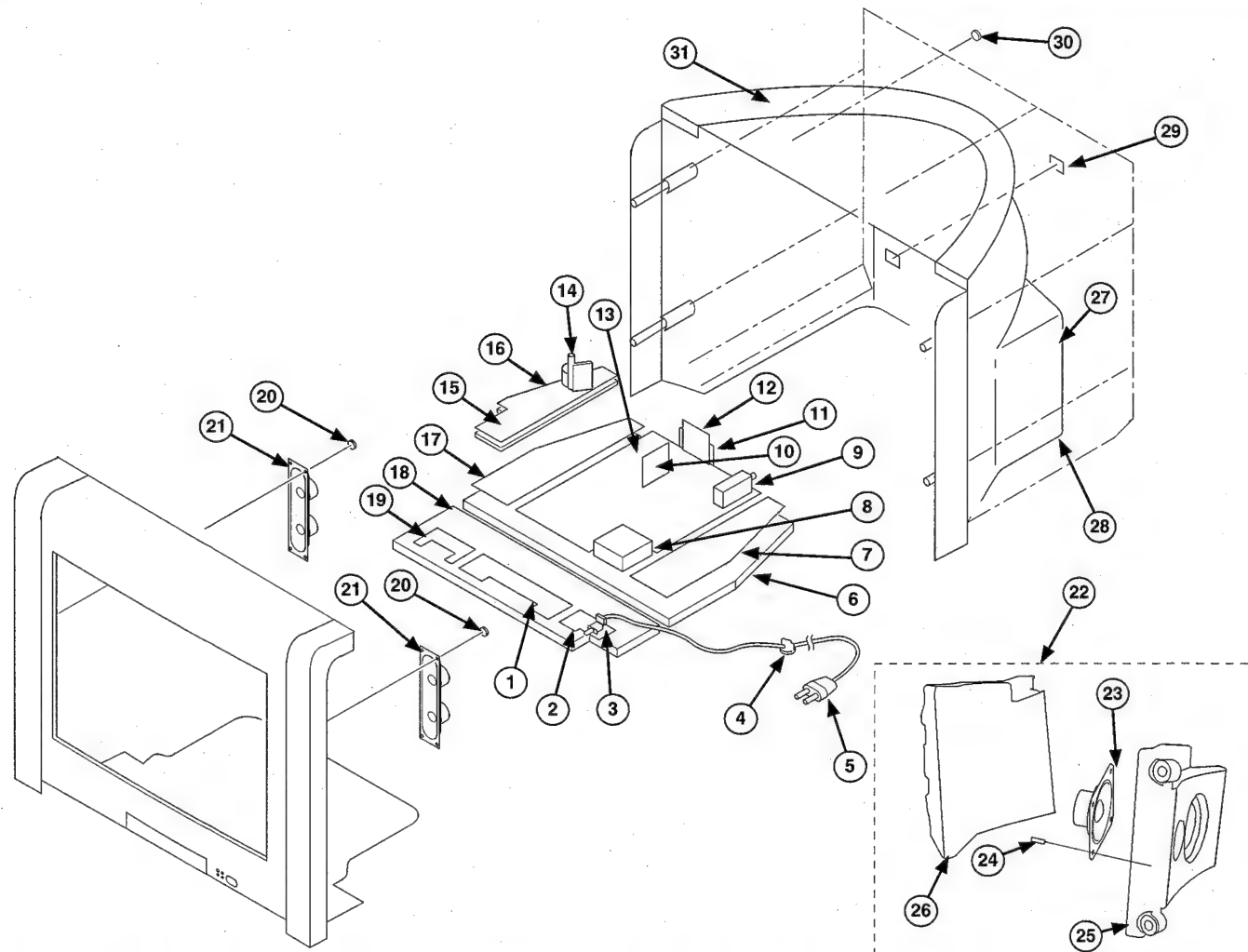
SECTION 6 EXPLODED VIEWS

NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

- Items marked "△" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

6-1. CHASSIS

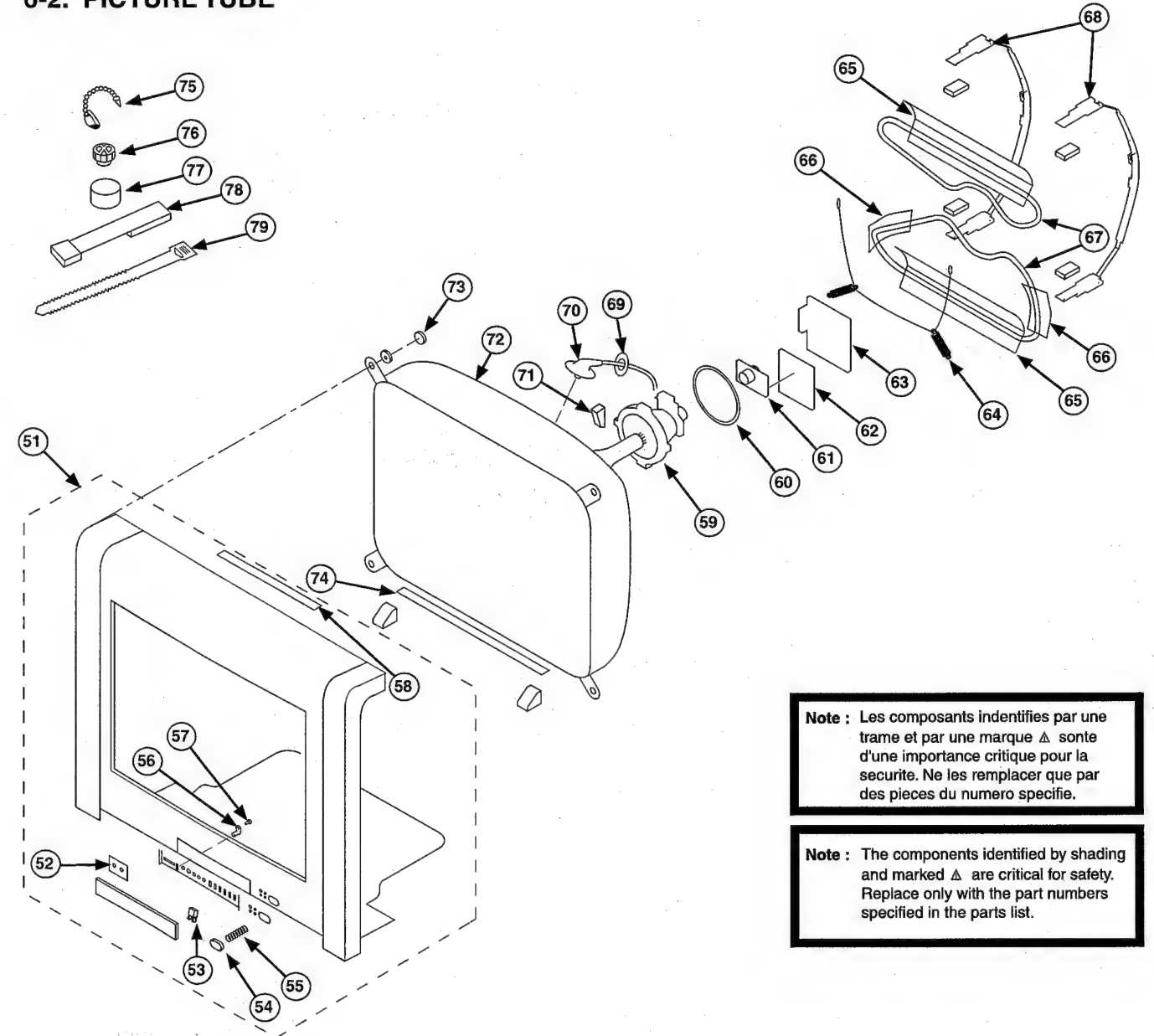


Note : Les composants identifiés par une trame et par une marque △ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

Note : The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
1	*A-1415-661-A	H5 BOARD COMPLETE		16	*4-095-738-01	BRACKET, D2	
2	*A-1415-662-A	F1 BOARD, COMPLETE		17	*A-1302-335-A	D BOARD, COMPLETE	
3	△ 1-571-433-21	SWITCH, PUSH (AC POWER)		18	*4-102-522-01	BRACKET, H	
4	*4-202-531-01	AC CORD LOCK (SC)		19	*A-1410-247-A	MS BOARD, COMPLETE	
5	△ *1-823-853-11	CORD, POWER		20	4-058-870-01	SCREW (4x16)W(+)* P TAPPING	
6	*4-095-739-11	BRACKET, MAIN		21	1-529-408-11	SPEAKER (4.2x24CM)	
7	A-1302-334-A	G BOARD, COMPLETE		22	A-1606-689-A	WOOFER COMPLETE ASSY 23-26	
8	1-456-510-11	COIL, PFC CHOKE 48.5MMH		23	1-529-417-11	SPEAKER (8CM)	
9	8-598-533-10	FRONT END BTF-EC411	(KV-32XL90E)	24	7-685-663-71	SCREW +BVTP 4x16 TYPE2 IT-3	
	8-598-535-20	FRONT END BTF-EF411	(KV-32XL90B)	25	*4-102-535-01	WOOFER BAFFLE	
10	*A-1302-336-A	B BOARD, COMPLETE		26	*4-102-534-01	WOOFER BOX	
11	*4-100-801-01	SUPPORTER, J		27	*4-102-533-01	WOOFER PORT	
12	*A-1415-658-A	J BOARD, COMPLETE		28	4-102-520-01	REAR COVER	
13	*A-1302-333-A	A BOARD, COMPLETE	(KV-32XL90E)	29	4-206-388-61	SERVICE PLATE	
	*A-1302-550-A	A BOARD, COMPLETE	(KV-32XL90B)	30	7-685-648-79	SCREW +BVTP 3x12 TYPE2 IT-3	
14	△ 1-453-444-21	TRANSFORMER ASSY, FLYBACK (NX-6020/Z2B4)		31	4-103-121-01	LOOP PAINTED	
15	*A-1302-549-A	D2 BOARD, COMPLETE					

6-2. PICTURE TUBE



Note : Les composants identifiés par une trame et par une marque △ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

Note : The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
51	X-4043-068-1	BEZNET ASSY	52-58	66	*4-392-534-21	CUSHION, DGC	
52	4-205-375-01	GUIDE, LIGHT		67	△ 1-424-888-11	COIL, DEGAUSSING	
53	4-087-491-11	SPRING (DOOR)		68	*4-204-768-02	HOLDER, DGC (29")	
54	4-102-532-01	POWER BUTTON		69	4-202-554-02	HOLDER, HV CABLE	
55	4-204-426-01	SPRING		70	△ 1-251-946-11	CAP ASSY, HIGH-VOLTAGE	
56	4-095-348-01	GUIDE, LIGHT (MS)		71	3-704-495-03	SPACER, DY	
57	7-685-648-79	SCREW +BVPT 3x12 TYPE 2 IT-3		72	△ 8-735-079-05	PICTURE TUBE (W76LLZ060X)	
58	4-204-865-21	SHEET, BLOTTING		73	4-046-765-12	SCREW, TAPPING 7+CROWN WASHER	
59	△ 1-451-480-22	DEFLECTION YOKE (Y32RVC2)		74	4-204-666-01	SHEET, BLOTTING	
60	1-452-896-11	COIL, NA ROTATION (RT200)		75	4-308-870-00	CLIP, LEAD WIRE	
61	△ 8-453-021-21	NECK ASSY, (NA-2919-M2)		76	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
62	*A-1415-660-A	VM BOARD, COMPLETE		77	1-452-032-00	MAGNET, DISK; 10MM Ø	
63	*A-1415-659-A	C BOARD, COMPLETE		78	X-4387-214-1	PERMALLOY, CORRECTION	
64	4-369-318-21	SPRING, TENSION		79	3-701-007-00	BAND, BINDING	
65	*4-095-593-01	CUSHION, DGC					

SECTION 7
ELECTRICAL PARTS LIST

A

PARTS LISTING TABLE OF CONTENTS

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Note : Items marked “*” are not stocked since they are seldom required for routine service. Som delay should be anticipated when ordering these items.
Parts indicated (XX) on the Schematic Diagram are not used in this model and therefore do not appear in the Parts List.

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
* A-1302-550-A A Board Complete (KV-32XL90B)				C2040	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
* A-1302-333-A A Board Complete (KV-32XL90E)				C2200	1-126-960-11	ELECT 1UF	20.00% 50V
A Board Common Parts				C2201	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
	4-382-854-01	SCREW (M3X8), P, SW (+)		C2202	1-126-960-11	ELECT 1UF	20.00% 50V
	4-382-854-01	SCREW (M3X8), P, SW (+)		C2203	1-126-963-11	ELECT 4.7UF	20.00% 50V
	< CAPACITOR >			C2204	1-126-960-11	ELECT 1UF	20.00% 50V
C1103	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C2205	1-126-960-11	ELECT 1UF	20.00% 50V
C1104	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C2206	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C1105	1-126-967-11	ELECT 47UF	20.00% 50V	C2207	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C1106	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C2300	1-126-935-11	ELECT 470UF	20.00% 16V
C1107	1-126-933-11	ELECT 100UF	20.00% 16V	C2301	1-126-947-11	ELECT 47UF	20.00% 35V
C1108	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V	C2302	1-126-947-11	ELECT 47UF	20.00% 35V
C1109	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V	C2303	1-126-947-11	ELECT 47UF	20.00% 35V
C1300	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C2304	1-126-947-11	ELECT 47UF	20.00% 35V
C1302	1-216-864-11	SHORT CHIP 0		C2305	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1303	1-162-928-11	CERAMIC CHIP 120PF	5.00% 50V	C2306	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1304	1-216-864-11	SHORT CHIP 0		C2400	1-136-175-00	FILM 0.68UF	5.00% 50V
C1307	1-125-891-11	CERAMIC CHIP 0.47UF	10.00% 10V	C2401	1-165-128-11	CERAMIC CHIP 0.22UF	16V
C2000	1-126-947-11	ELECT 47UF	20.00% 35V	C2402	1-163-135-00	CERAMIC CHIP 560PF	5.00% 50V
C2001	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C2403	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C2002	1-126-947-11	ELECT 47UF	20.00% 35V	C2404	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C2004	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C2405	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C2005	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V	C2406	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C2006	1-126-947-11	ELECT 47UF	20.00% 35V	C2407	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C2007	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V	C2408	1-126-963-11	ELECT 4.7UF	20.00% 50V
C2009	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V	C2409	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C2010	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V	C2410	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2011	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V	C2411	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2012	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V	C2412	1-126-943-11	ELECT 2200UF	20.00% 25V
C2013	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V	C2413	1-126-943-11	ELECT 2200UF	20.00% 25V
C2014	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V	C2414	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2016	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C2500	1-107-914-11	ELECT 1000UF	20.00% 50V
C2017	1-126-964-11	ELECT 10UF	20.00% 50V	C2501	1-107-914-11	ELECT 1000UF	20.00% 50V
C2018	1-126-964-11	ELECT 10UF	20.00% 50V	C2502	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2019	1-126-947-11	ELECT 47UF	20.00% 35V	C2503	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2020	1-126-947-11	ELECT 47UF	20.00% 35V	C2504	1-126-959-11	ELECT 0.47UF	20.00% 50V
C2021	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C2505	1-107-888-11	ELECT 47UF	20.00% 25V
C2022	1-126-964-11	ELECT 10UF	20.00% 50V	C2506	1-107-888-11	ELECT 47UF	20.00% 25V
C2023	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C2507	1-126-959-11	ELECT 0.47UF	20.00% 50V
C2024	1-126-964-11	ELECT 10UF	20.00% 50V	C2508	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C2026	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C2512	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2027	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C2513	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C2028	1-162-906-11	CERAMIC CHIP 1.5PF	0.25PF 50V	C2514	1-107-907-11	ELECT 22UF	20.00% 50V
C2029	1-162-906-11	CERAMIC CHIP 1.5PF	0.25PF 50V	C2603	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C2030	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V	C2619	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C2031	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V	C5103	1-126-960-11	ELECT 1UF	20.00% 50V
C2032	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V	C5106	1-126-933-11	ELECT 100UF	20.00% 16V
				C5109	1-126-964-11	ELECT 10UF	20.00% 50V
				C5110	1-126-947-11	ELECT 47UF	20.00% 35V
				C5111	1-126-964-11	ELECT 10UF	20.00% 50V

A

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C5112	1-126-964-11	ELECT 10UF	20.00% 50V	C6234	1-136-497-81	FILM 0.1UF	5.00% 50V
C5116	1-126-964-11	ELECT 10UF	20.00% 50V	C6235	1-128-550-11	ELECT 2200UF	20.00% 50V
C5117	1-126-947-11	ELECT 47UF	20.00% 35V	C6236	1-128-942-31	ELECT 1000UF	20% 6.3V
C5118	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C6237	1-126-767-11	ELECT 1000UF	20.00% 16V
C5119	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	C6238	1-136-497-81	FILM 0.1UF	5.00% 50V
C5120	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C6239	1-104-665-11	ELECT 100UF	20.00% 25V
C5121	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C6240	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5122	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C6241	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5123	1-126-947-11	ELECT 47UF	20.00% 35V	C6242	1-104-665-11	ELECT 100UF	20.00% 25V
C5124	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C6243	1-104-665-11	ELECT 100UF	20.00% 25V
C5125	1-126-964-11	ELECT 10UF	20.00% 50V	C6244	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5126	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C6245	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5201	1-126-947-11	ELECT 47UF	20.00% 35V	C6246	1-104-665-11	ELECT 100UF	20.00% 25V
C5202	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C6247	1-104-665-11	ELECT 100UF	20.00% 25V
C5203	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C6248	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5204	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C6249	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5205	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C6250	1-104-665-11	ELECT 100UF	20.00% 25V
C5206	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C6251	1-104-665-11	ELECT 100UF	20.00% 25V
C5207	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C6252	1-126-963-11	ELECT 4.7UF	20.00% 50V
C5208	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C6253	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5209	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C6254	1-137-374-11	MYLAR 0.047UF	5.00% 50V
C5210	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C6255	1-126-935-11	ELECT 470UF	20.00% 16V
C5214	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C6256	1-126-947-11	ELECT 47UF	20.00% 35V
C5215	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	< CONNECTOR >			
C5217	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	CN0002	* 1-564-507-11	PLUG, CONNECTOR 4P	
C5218	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	CN2300	* 1-564-510-11	PLUG, CONNECTOR 7P	
C5219	1-126-964-11	ELECT 10UF	20.00% 50V	CN2301	* 1-564-509-11	PLUG, CONNECTOR 6P	
C5403	1-126-941-11	ELECT 470UF	20.00% 25V	CN2302	* 1-564-511-11	PLUG, CONNECTOR 8P	
C5404	1-102-228-00	CERAMIC 470PF	10.00% 500V	CN2400	* 1-816-974-51	PLUG, CONNECTOR 3P	
C5405	1-164-156-11	CERAMIC CHIP 0.1UF	25V	CN2501	* 1-564-507-11	PLUG, CONNECTOR 4P	
C5406	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V	CN3000	* 1-564-510-11	PLUG, CONNECTOR 7P	
C5407	1-126-941-11	ELECT 470UF	20.00% 25V	CN3001	1-691-773-11	PLUG (MICRO CONNECTOR) 11P	
C5409	1-126-968-11	ELECT 100UF	20.00% 50V	CN3002	* 1-817-115-11	CONNECTOR, BOARD TO BOARD 35P	
C5410	1-164-156-11	CERAMIC CHIP 0.1UF	25V	CN3004	* 1-816-974-51	PLUG, CONNECTOR 3P	
C5411	1-137-401-11	MYLAR 0.22UF	5.00% 100V	CN3008	1-691-775-11	PLUG (MICRO CONNECTOR) 13P	
C5412	1-106-220-00	MYLAR 0.1UF	10.00% 100V	CN5207	* 1-818-034-11	DIN CONNECTOR PLUG 96P	
C5413	1-130-785-11	MYLAR 0.47UF	5.00% 100V	CN5209	* 1-564-520-11	PLUG, CONNECTOR 5P	
C6200	1-164-156-11	CERAMIC CHIP 0.1UF	25V	CN6200	* 1-816-977-51	PLUG, CONNECTOR 6P	
C6202	1-126-767-11	ELECT 1000UF	20.00% 16V	CN6201	* 1-564-510-11	PLUG, CONNECTOR 7P	
C6203	1-164-156-11	CERAMIC CHIP 0.1UF	25V	CN6202	* 1-564-510-11	PLUG, CONNECTOR 7P	
C6206	1-104-665-11	ELECT 100UF	20.00% 25V	CN6203	1-695-915-11	TAB (CONTACT)	
C6208	1-126-767-11	ELECT 1000UF	20.00% 16V	CN6900	* 1-564-510-11	PLUG, CONNECTOR 7P	
C6209	1-104-665-11	ELECT 100UF	20.00% 25V	< DIODE >			
C6217	1-126-767-11	ELECT 1000UF	20.00% 16V	D2002	8-719-081-97	DIODE MMDL914T1	
C6223	1-136-497-81	FILM 0.1UF	5.00% 50V	D2200	8-719-929-15	DIODE HZS9.1NB2	
C6226	1-128-942-31	ELECT 1000UF	20% 6.3V	D2201	8-719-929-15	DIODE HZS9.1NB2	
C6229	1-126-935-11	ELECT 470UF	20.00% 16V	D2202	8-719-050-38	DIODE M1MA152WK-T1	
C6231	1-136-497-81	FILM 0.1UF	5.00% 50V	D2500	8-719-050-38	DIODE M1MA152WK-T1	
C6232	1-128-942-31	ELECT 1000UF	20% 6.3V				
C6233	1-126-935-11	ELECT 470UF	20.00% 16V				

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
D5100	8-719-081-97	DIODE MMDL914T1		IC6204	8-759-648-19	IC L7809CV/LSY	
D5103	8-719-110-86	DIODE RD39ESB		IC6207	8-759-640-19	IC PQ1CG2032FZ	
D5104	8-719-976-99	DIODE DTZ5.1B		IC6209	8-759-640-19	IC PQ1CG2032FZ	
D5200	8-719-081-97	DIODE MMDL914T1		IC6210	8-759-445-59	IC BA033T	
D5201	8-719-081-98	DIODE MM3Z6V8T1		IC6211	6-701-848-01	IC KF25BDT	
D5202	8-719-081-97	DIODE MMDL914T1		IC6212	8-759-474-09	IC SI-8050S-LF1101	
D5203	8-719-081-97	DIODE MMDL914T1		< SOCKET >			
D5204	8-719-081-97	DIODE MMDL914T1		J2200	1-784-632-11	JACK, PIN 2P	
D5205	8-719-081-97	DIODE MMDL914T1		< COIL >			
D5206	8-719-081-97	DIODE MMDL914T1		L1100	1-414-760-21	FERRITE 0UH	
D5207	8-719-081-97	DIODE MMDL914T1		L1101	1-414-760-21	FERRITE 0UH	
D5208	8-719-081-97	DIODE MMDL914T1		L1102	1-408-615-31	INDUCTOR 100UH	
D5209	8-719-081-97	DIODE MMDL914T1		L1103	1-408-603-31	INDUCTOR 10UH	
D5210	8-719-081-97	DIODE MMDL914T1		L1104	1-412-979-21	INDUCTOR 1UH	
D5211	8-719-081-97	DIODE MMDL914T1		L1300	1-535-303-00	LEAD, JUMPER (5.0MM)	
D5212	8-719-081-97	DIODE MMDL914T1		L1301	1-408-602-31	INDUCTOR 8.2UH	
D5404	8-719-110-41	DIODE RD15ESB2		L2000	1-414-928-21	INDUCTOR 1UH	
D5405	8-719-908-03	DIODE GP08D		L2001	1-414-928-21	INDUCTOR 1UH	
D6201	8-719-022-97	DIODE D2S4MF		L2011	1-414-928-21	INDUCTOR 1UH	
D6203	8-719-063-70	DIODE D1NL20U		L2400	1-406-977-21	INDUCTOR 100UH	
D6204	8-719-063-70	DIODE D1NL20U		L2401	1-535-303-00	LEAD, JUMPER (5.0MM)	
D6205	8-719-050-38	DIODE M1MA152WK-T1		L2402	1-535-303-00	LEAD, JUMPER (5.0MM)	
D6206	8-719-081-97	DIODE MMDL914T1		L2500	1-535-303-00	LEAD, JUMPER (5.0MM)	
D6207	8-719-081-97	DIODE MMDL914T1		L2501	1-535-303-00	LEAD, JUMPER (5.0MM)	
D6208	8-719-081-97	DIODE MMDL914T1		L5400	1-412-525-31	INDUCTOR 10UH	
D6209	8-719-081-97	DIODE MMDL914T1		L5401	1-535-303-00	LEAD, JUMPER (5.0MM)	
D6210	8-719-110-41	DIODE RD15ESB2		L5402	1-535-303-00	LEAD, JUMPER (5.0MM)	
D6211	8-719-080-59	DIODE EK19-V0		L6203	1-419-743-12	INDUCTOR 100UH	
D6212	8-719-022-97	DIODE D2S4MF		L6207	1-412-525-31	INDUCTOR 10UH	
D6213	8-719-022-97	DIODE D2S4MF		L6210	1-535-303-00	LEAD, JUMPER (5.0MM)	
D6214	8-719-056-84	DIODE UDZ-TE-17-7.5B		L6211	1-535-303-00	LEAD, JUMPER (5.0MM)	
< FERRITE BEAD >				L6213	1-412-539-11	INDUCTOR 150UH	
FB2400	1-535-303-00	LEAD, JUMPER (5.0MM)		L6214	1-419-743-11	INDUCTOR 100UH	
FB2401	1-535-303-00	LEAD, JUMPER (5.0MM)		L6215	1-412-525-31	INDUCTOR 10UH	
FB6201	1-535-303-00	LEAD, JUMPER (5.0MM)		L6216	1-535-303-00	LEAD, JUMPER (5.0MM)	
FB6203	1-535-303-00	LEAD, JUMPER (5.0MM)		L6218	1-419-743-12	INDUCTOR 100UH	
FB6204	1-535-303-00	LEAD, JUMPER (5.0MM)		L6219	1-406-971-11	INDUCTOR 10UH	
< IC >				< PROTECTOR MODULE >			
IC2000	6-701-031-11	IC MSP3411G-QA-B11		PS2000 Δ	1-801-549-21	IC LINK 4A 0V	
IC2200	8-759-100-96	IC UPC4558G2		PS2001 Δ	1-801-549-21	IC LINK 4A 0V	
IC2300	8-759-576-76	IC TDA2822D013TR		< TRANSISTOR >			
IC2400	8-759-544-25	IC TDA7482		Q0100	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
IC2500	6-704-807-01	IC TDA7269		Q0200	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
IC5102	8-759-325-48	IC CA0005AD		Q0201	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
IC5104	8-759-803-42	IC LA6500-FA		Q1100	8-729-010-29	TRANSISTOR MSD601-RST1	
IC5400	8-759-696-71	IC STV9379A					
IC6200	8-759-648-20	IC L7805CV/LSY					
IC6202	8-759-640-19	IC PQ1CG2032FZ					

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
Q1300	8-729-010-29	TRANSISTOR MSD601-RST1		JR6004	1-216-864-11	SHORT CHIP	0	R2202	1-216-837-11	METAL CHIP	22K 5% 1/10W	R2506	1-216-079-00	RES-CHIP	18K 5% 1/10W
Q1301	8-729-010-05	TRANSISTOR MSB709-RT1		JR6005	1-216-864-11	SHORT CHIP	0	R2203	1-216-839-11	METAL CHIP	33K 5% 1/10W	R2507	1-216-079-00	RES-CHIP	18K 5% 1/10W
Q2000	8-729-010-29	TRANSISTOR MSD601-RST1		JR6006	1-216-864-11	SHORT CHIP	0	R2204	1-216-839-11	METAL CHIP	33K 5% 1/10W	R2508	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2200	8-729-010-05	TRANSISTOR MSB709-RT1		JR6007	1-216-864-11	SHORT CHIP	0	R2205	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2509	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q2201	8-729-010-29	TRANSISTOR MSD601-RST1		JR6008	1-216-864-11	SHORT CHIP	0	R2206	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2510	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
Q2202	8-729-010-29	TRANSISTOR MSD601-RST1		JR6009	1-216-864-11	SHORT CHIP	0	R2207	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2511	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q2300	8-729-010-05	TRANSISTOR MSB709-RT1		JR6013	1-216-864-11	SHORT CHIP	0	R2208	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2512	1-216-835-11	METAL CHIP	15K 5% 1/10W
Q2301	8-729-010-29	TRANSISTOR MSD601-RST1		JR6023	1-216-864-11	SHORT CHIP	0	R2209	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2514	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
Q2302	8-729-010-29	TRANSISTOR MSD601-RST1		JR6025	1-216-864-11	SHORT CHIP	0	R2211	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R2515	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q2400	8-729-010-05	TRANSISTOR MSB709-RT1		JR6027	1-216-864-11	SHORT CHIP	0	R2213	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2516	1-216-845-11	METAL CHIP	100K 5% 1/10W
Q2401	8-729-010-29	TRANSISTOR MSD601-RST1		JR8002	1-216-864-11	SHORT CHIP	0	R2214	1-216-817-11	METAL CHIP	470 5% 1/10W	R2517	1-216-864-11	SHORT CHIP	0
Q2500	8-729-010-29	TRANSISTOR MSD601-RST1		JR8003	1-216-864-11	SHORT CHIP	0	R2216	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R2518	1-216-081-00	RES-CHIP	22K 5% 1/10W
Q2501	8-729-010-29	TRANSISTOR MSD601-RST1		R0001	1-216-864-11	SHORT CHIP	0	R2217	1-216-817-11	METAL CHIP	470 5% 1/10W	R2519	1-216-845-11	METAL CHIP	100K 5% 1/10W
Q2502	8-729-010-29	TRANSISTOR MSD601-RST1		R0100	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2218	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R2520	1-216-845-11	METAL CHIP	100K 5% 1/10W
Q2503	8-729-010-29	TRANSISTOR MSD601-RST1		R0102	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R2220	1-216-864-11	SHORT CHIP	0	R2521	1-243-826-21	METAL OXIDE	4.7 5% 1W
Q2504	8-729-027-38	TRANSISTOR DTA144EKA-T146		R0103	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2221	1-414-760-21	FERRITE	0UH	R2522	1-243-826-21	METAL OXIDE	4.7 5% 1W
Q5100	8-729-010-05	TRANSISTOR MSB709-RT1		R0200	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R2300	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2523	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q5101	8-729-010-29	TRANSISTOR MSD601-RST1		R0201	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R2301	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2524	1-216-864-11	SHORT CHIP	0
Q5200	8-729-010-05	TRANSISTOR MSB709-RT1		R0202	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R2302	1-216-805-11	METAL CHIP	47 5% 1/10W	R2525	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q5201	8-729-010-29	TRANSISTOR MSD601-RST1		R0204	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2303	1-216-805-11	METAL CHIP	47 5% 1/10W	R2526	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q5202	8-729-010-05	TRANSISTOR MSB709-RT1		R0205	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R2304	1-216-821-11	METAL CHIP	1K 5% 1/10W	R5102	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
Q5203	8-729-010-29	TRANSISTOR MSD601-RST1		R0207	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2305	1-216-821-11	METAL CHIP	1K 5% 1/10W	R5103	1-218-833-11	METAL CHIP	270 0.5% 1/10W
Q5204	8-729-010-05	TRANSISTOR MSB709-RT1		R1100	1-216-864-11	SHORT CHIP	0	R2306	1-216-837-11	METAL CHIP	22K 5% 1/10W	R5107	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
Q5205	8-729-010-29	TRANSISTOR MSD601-RST1		R1102	1-216-864-11	SHORT CHIP	0	R2307	1-216-837-11	METAL CHIP	22K 5% 1/10W	R5111	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q5206	8-729-010-05	TRANSISTOR MSB709-RT1		R1103	1-216-864-11	SHORT CHIP	0	R2308	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R5112	1-216-835-11	METAL CHIP	15K 5% 1/10W
Q5207	8-729-010-29	TRANSISTOR MSD601-RST1		R1105	1-216-864-11	SHORT CHIP	0	R2309	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R5118	1-249-411-11	CARBON	330 5% 1/4W
Q5208	8-729-010-29	TRANSISTOR MSD601-RST1		R1106	1-216-864-11	SHORT CHIP	0	R2310	1-249-389-11	CARBON	4.7 5% 1/4W	R5119	1-216-844-11	METAL CHIP	82K 5% 1/10W
Q5209	8-729-010-29	TRANSISTOR MSD601-RST1		R1108	1-216-864-11	SHORT CHIP	0	R2311	1-216-809-11	METAL CHIP	100 5% 1/10W	R5122	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q5210	8-729-010-29	TRANSISTOR MSD601-RST1		R1110	1-216-836-11	METAL CHIP	18K 5% 1/10W	R2312	1-249-389-11	CARBON	4.7 5% 1/4W	R5125	1-216-836-11	METAL CHIP	18K 5% 1/10W
Q5211	8-729-010-29	TRANSISTOR MSD601-RST1		R1111	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2313	1-216-813-11	METAL CHIP	220 5% 1/10W	R5126	1-249-406-11	CARBON	120 5% 1/4W
Q5404	8-729-926-76	TRANSISTOR IRF620		R1300	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2314	1-216-809-11	METAL CHIP	100 5% 1/10W	R5127	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q6201	8-729-010-29	TRANSISTOR MSD601-RST1		R1303	1-216-805-11	METAL CHIP	47 5% 1/10W	R2315	1-216-813-11	METAL CHIP	220 5% 1/10W	R5141	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q6202	8-729-010-05	TRANSISTOR MSB709-RT1		R1304	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2316	1-216-809-11	METAL CHIP	100 5% 1/10W	R5143	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q6203	8-729-010-29	TRANSISTOR MSD601-RST1		R2000	1-414-760-21	FERRITE	0UH	R2317	1-216-809-11	METAL CHIP	100 5% 1/10W	R5144	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q6204	8-729-010-05	TRANSISTOR MSB709-RT1		R2001	1-414-760-21	FERRITE	0UH	R2400	1-249-422-11	CARBON	2.7K 5% 1/4W	R5145	1-216-809-11	METAL CHIP	100 5% 1/10W
Q6205	8-729-010-05	TRANSISTOR MSB709-RT1		R2002	1-216-845-11	METAL CHIP	100K 5% 1/10W	R2401	1-216-817-11	METAL CHIP	470 5% 1/10W	R5146	1-216-809-11	METAL CHIP	100 5% 1/10W
Q6206	8-729-010-29	TRANSISTOR MSD601-RST1		R2003	1-216-864-11	SHORT CHIP	0	R2402	1-218-827-11	METAL CHIP	150 0.5% 1/10W	R5148	1-216-809-11	METAL CHIP	100 5% 1/10W
Q6207	8-729-010-29	TRANSISTOR MSD601-RST1		R2004	1-216-864-11	SHORT CHIP	0	R2403	1-216-833-11	METAL CHIP	10K 5% 1/10W	R5149	1-218-833-11	METAL CHIP	270 0.5% 1/10W
Q6208	8-729-010-29	TRANSISTOR MSD601-RST1		R2005	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2404	1-216-821-11	METAL CHIP	1K 5% 1/10W	R5150	1-249-414-11	CARBON	560 5% 1/4W
Q6209	8-729-010-29	TRANSISTOR MSD601-RST1		R2006	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2405	1-216-838-11	METAL CHIP	27K 5% 1/10W	R5151	1-249-454-11	CARBON	3.9 5% 1/4W
< RESISTOR >				R2007	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2406	1-216-841-11	METAL CHIP	47K 5% 1/10W	R5152	1-249-413-11	CARBON	470 5% 1/4W
JR3001	1-216-864-11	SHORT CHIP	0	R2008	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2407	1-216-833-11	METAL CHIP	10K 5% 1/10W	R5153	1-249-393-11	CARBON	10 5% 1/4W
JR3003	1-216-864-11	SHORT CHIP	0	R2022	1-216-845-11	METAL CHIP	100K 5% 1/10W	R2409	1-216-864-11	SHORT CHIP	0	R5154	1-216-853-11	METAL CHIP	470K 5% 1/10W
JR3004	1-216-864-11	SHORT CHIP	0	R2025	1-216-864-11	SHORT CHIP	0	R2410	1-216-864-11	SHORT CHIP	0	R5155	1-249-421-11	CARBON	2.2K 5% 1/4W
JR3006	1-216-864-11	SHORT CHIP	0	R2026	1-216-809-11	METAL CHIP	100 5% 1/10W	R2500	1-216-089-91	RES-CHIP	47K 5% 1/10W	R5156	1-216-837-11	METAL CHIP	22K 5% 1/10W
JR3011	1-216-864-11	SHORT CHIP	0	R2029	1-216-864-11	SHORT CHIP	0	R2501	1-216-049-11	RES-CHIP	1K 5% 1/10W	R5157	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
JR6001	1-216-864-11	SHORT CHIP	0	R2030	1-216-864-11	SHORT CHIP	0	R2502	1-216-049-11	RES-CHIP	1K 5% 1/10W	R5158	1-216-843-11	METAL CHIP	68K 5% 1/10W
JR6002	1-216-864-11	SHORT CHIP	0	R2200	1-216-837-11	METAL CHIP	22K 5% 1/10W	R2503	1-216-049-11	RES-CHIP	1K 5% 1/10W	R5201	1-216-809-11	METAL CHIP	100 5% 1/10W
JR6003	1-216-864-11	SHORT CHIP	0	R2201	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2504	1-216-089-91	RES-CHIP	47K 5% 1/10W	R5203	1-216-864-11	SHORT CHIP	0
								R2505	1-216-049-11	RES-CHIP	1K 5% 1/10W	R5204	1-216-829-11	METAL CHIP	4.7K 5% 1/10W

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R5205	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5409	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
R5206	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5410	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W
R5207	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5411	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R5209	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5413	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
R5210	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5414	1-249-383-11	CARBON	1.5 5% 1/4W
R5212	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5415	1-249-389-11	CARBON	4.7 5% 1/4W
R5213	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5416	1-243-568-21	METAL OXIDE	220 5% 2W
R5214	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5417	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W
R5215	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5420	1-214-798-21	METAL	1.8 1% 1/2W
R5216	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5421	1-214-798-21	METAL	1.8 1% 1/2W
R5217	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R6203	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W
R5218	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6206	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R5219	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6209	1-216-864-11	SHORT CHIP	0
R5220	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6211	1-218-860-11	METAL CHIP	3.6K 0.5% 1/10W
R5221	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R6213	1-535-303-00	LEAD, JUMPER (5.0MM)	
R5222	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6214	1-216-864-11	SHORT CHIP	0
R5223	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6215	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5224	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6216	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5225	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R6217	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5226	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6218	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5227	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6219	1-216-841-11	METAL CHIP	47K 5% 1/10W
R5228	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6220	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5229	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6221	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5230	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6222	1-216-864-11	SHORT CHIP	0
R5231	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R6223	1-216-846-11	METAL CHIP	120K 5% 1/10W
R5232	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6224	1-218-877-11	METAL CHIP	18K 0.5% 1/10W
R5233	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6225	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
R5234	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6226	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5235	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6227	1-218-899-11	METAL CHIP	150K 0.5% 1/16W
R5236	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6228	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5237	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6229	1-216-845-11	METAL CHIP	100K 5% 1/10W
R5239	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6230	1-216-845-11	METAL CHIP	100K 5% 1/10W
R5240	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6231	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
R5241	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6232	1-216-864-11	SHORT CHIP	0
R5242	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R6235	1-218-885-11	METAL CHIP	39K 0.5% 1/10W
R5243	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6236	1-218-899-11	METAL CHIP	150K 0.5% 1/16W
R5244	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R6237	1-218-885-11	METAL CHIP	39K 0.5% 1/10W
R5245	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6238	1-216-864-11	SHORT CHIP	0
R5246	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	R6239	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
R5247	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6240	1-216-864-11	SHORT CHIP	0
R5248	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6244	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R5249	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R6246	1-218-839-11	METAL CHIP	470 0.5% 1/10W
R5250	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6247	1-216-864-11	SHORT CHIP	0
R5251	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6248	1-216-841-11	METAL CHIP	47K 5% 1/10W
R5252	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R6249	1-216-841-11	METAL CHIP	47K 5% 1/10W
R5253	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6250	1-216-841-11	METAL CHIP	47K 5% 1/10W
R5254	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8005	1-216-809-11	METAL CHIP	100 5% 1/10W
R5255	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R8007	1-216-809-11	METAL CHIP	100 5% 1/10W
R5256	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8008	1-216-809-11	METAL CHIP	100 5% 1/10W
R5408	1-216-845-11	METAL CHIP	100K 5% 1/10W	R8009	1-216-809-11	METAL CHIP	100 5% 1/10W

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R8010	1-216-809-11	METAL CHIP	100 5% 1/10W	C6030	1-126-944-11	ELECT	3300UF 20.00% 25V
R8011	1-216-809-11	METAL CHIP	100 5% 1/10W	C6031	1-126-944-11	ELECT	3300UF 20.00% 25V
R8012	1-216-809-11	METAL CHIP	100 5% 1/10W	C6032	Δ 1-113-927-11	CERAMIC	0.01UF 250V
R8013	1-216-809-11	METAL CHIP	100 5% 1/10W	C6033	1-162-964-11	CERAMIC CHIP	0.001UF 10.00% 50V
R8014	1-216-809-11	METAL CHIP	100 5% 1/10W	C6034	1-126-949-11	ELECT	220UF 20.00% 35V
R8015	1-216-809-11	METAL CHIP	100 5% 1/10W	C6035	1-136-497-81	FILM	0.1UF 5.00% 50V
R8016	1-216-809-11	METAL CHIP	100 5% 1/10W	C6036	1-136-479-11	FILM	0.001UF 5.00% 100V
R8017	1-216-809-11	METAL CHIP	100 5% 1/10W	C6037	1-126-947-11	ELECT	47UF 20.00% 35V
< CRYSTAL >				C6038	1-164-625-11	CERAMIC	680PF 10.00% 500V
X2000	1-760-628-11	VIBRATOR, CRYSTAL		C6039	1-125-891-11	CERAMIC CHIP	0.47UF 10.00% 10V
Variant Parts KV-32XL90B				C6040	1-127-715-91	CERAMIC CHIP	0.22UF 10% 16V
< TUNER >				C6042	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
TU1100	8-598-535-20	FRONTEND BTF-EF411		C6043	1-125-891-11	CERAMIC CHIP	0.47UF 10.00% 10V
Variant Parts KV-32XL90E				C6045	1-115-339-11	CERAMIC CHIP	0.1UF 10.00% 50V
< TUNER >				C6103	1-119-940-51	ELECT	4700UF 20.00% 50V
TU1100	8-598-533-10	FRONTEND BTF-EC411		< CONNECTOR >			
* A-1302-334-A G Board Complete				CN6001	Δ * 1-691-291-11	PIN, CONNECTOR (PC BOARD)	5P
4-382-854-01 SCREW (M3X8), P, SW (+)				CN6002	Δ * 1-508-786-00	PIN, CONNECTOR (5MM PITCH)	2P
< CAPACITOR >				CN6003	Δ * 1-508-765-00	PIN, CONNECTOR (5MM PITCH)	3P
C6001	Δ 1-165-528-11	MYLAR	0.1UF 10 275V	CN6004	Δ * 1-691-960-11	PIN, CONNECTOR (PC BOARD)	3P
C6002	Δ 1-165-528-11	MYLAR	0.1UF 10 275V	CN6005	* 1-817-037-61	PLUG, CONNECTOR	6P
C6003	Δ 1-119-900-51	CERAMIC	2200PF 20.00% 250V	CN6006	* 1-564-510-11	PLUG, CONNECTOR	7P
C6004	Δ 1-119-900-51	CERAMIC	2200PF 20.00% 250V	CN6007	1-817-917-11	PIN, CONNECTOR	3P
C6005	1-126-965-91	ELECT	22UF 20.00% 50V	CN6008	* 1-816-977-51	PLUG, CONNECTOR	6P
C6006	1-117-753-11	ELECT (BLOCK)	470UF 20.00% 450V	CN6012	* 1-564-510-11	PLUG, CONNECTOR	7P
C6007	1-126-964-11	ELECT	10UF 20.00% 50V	< DIODE >			
C6008	1-126-963-11	ELECT	4.7UF 20.00% 50V	D6001	6-500-067-01	DIODE GSIB460L/45	
C6010	1-136-497-81	FILM	0.1UF 5.00% 50V	D6002	8-719-982-26	DIODE MTZJ-33B	
C6011	1-162-964-11	CERAMIC CHIP	0.001UF 10.00% 50V	D6004	8-719-083-94	DIODE FUF4005	
C6012	Δ 1-104-571-91	CERAMIC	0.0015UF 10.00% 2KV	D6006	8-719-081-97	DIODE MMDL914T1	
C6013	Δ 1-104-571-91	CERAMIC	0.0015UF 10.00% 2KV	D6007	8-719-081-97	DIODE MMDL914T1	
C6015	1-115-339-11	CERAMIC CHIP	0.1UF 10.00% 50V	D6008	6-500-175-01	DIODE 1E3-TB	
C6016	Δ 1-104-571-91	CERAMIC	0.0015UF 10.00% 2KV	D6009	8-719-110-41	DIODE RD15ESB2	
C6017	Δ 1-104-571-91	CERAMIC	0.0015UF 10.00% 2KV	D6012	8-719-052-90	DIODE DINL40-TA2	
C6018	1-126-949-11	ELECT	220UF 20.00% 35V	D6013	6-500-175-01	DIODE 1E3-TB	
C6019	1-162-968-11	CERAMIC CHIP	0.0047UF 10.00% 50V	D6016	8-719-060-88	DIODE D4SBS6	
C6020	1-100-311-11	FILM	22000PF 3% 800V	D6017	8-719-052-90	DIODE DINL40-TA2	
C6021	1-164-625-11	CERAMIC	680PF 10.00% 500V	D6031	8-719-080-59	DIODE EK19-V0	
C6022	1-126-963-11	ELECT	4.7UF 20.00% 50V	D6032	8-719-080-59	DIODE EK19-V0	
C6023	1-110-626-11	ELECT	330UF 20.00% 160V	D6033	8-719-312-92	DIODE RK14V1	
C6028	1-100-197-11	ELECT	15000UF 20% 16V	D6034	8-719-312-92	DIODE RK14V1	
C6029	1-126-939-11	ELECT	10000UF 20.00% 16V	D6036	8-719-080-59	DIODE EK19-V0	
< FERRITE BEAD >				D6102	8-719-511-40	DIODE SIVB40	
FB6002	1-410-397-21	FERRITE	1.1UH	D6104	8-719-081-97	DIODE MMDL914T1	
FB6003	1-410-397-21	FERRITE	1.1UH	D6105	8-719-081-97	DIODE MMDL914T1	

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
< IC >				R6024	1-211-981-11	METAL CHIP	33 0.5% 1/10W	C8110	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C8536	1-136-497-81	FILM	0.1UF 5.00% 50V
IC6001	8-759-670-30	IC MCZ3001D		R6029	1-216-833-11	METAL CHIP	10K 5% 1/10W	C8111	1-162-134-11	CERAMIC 470PF	10.00% 2KV	C8537	1-136-347-11	FILM	0.0047UF 5.00% 630V
IC6003	8-749-016-19	IC SE135N-LF4		R6030	1-216-817-11	METAL CHIP	470 5% 1/10W	C8112	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V	C8538	1-137-499-11	FILM	0.015UF 5.00% 630V
< COIL >				R6032	1-249-417-11	CARBON	1K 5% 1/4W	C8113	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C8802	1-126-960-11	ELECT	1UF 20.00% 50V
L6001	1-406-663-21	INDUCTOR	47UH	R6033	1-245-478-21	METAL	470K 1% 1/4W	C8114	1-126-964-11	ELECT 10UF	20.00% 50V	C8803	1-126-960-11	ELECT	1UF 20.00% 50V
L6002	1-412-519-11	INDUCTOR	3.3UH	R6035	1-260-083-11	CARBON	47 5% 1/2W	C8115	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C8804	1-102-114-00	CERAMIC	470PF 10.00% 50V
L6003	1-412-519-11	INDUCTOR	3.3UH	R6036	1-216-817-11	METAL CHIP	470 5% 1/10W	C8116	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V	C8805	1-102-114-00	CERAMIC	470PF 10.00% 50V
L6004	1-535-303-00	LEAD, JUMPER	(5.0MM)	R6037	1-249-405-11	CARBON	100 5% 1/4W	C8117	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V	< CONNECTOR >			
L6005	1-535-303-00	LEAD, JUMPER	(5.0MM)	R6038	1-218-895-11	METAL CHIP	100K 0.5% 1/10W	C8118	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	CN8104	* 1-564-510-11	PLUG, CONNECTOR	7P
L6006	1-406-659-11	INDUCTOR	10UH	R6039	1-218-895-11	METAL CHIP	100K 0.5% 1/10W	C8119	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	CN8203	1-691-775-11	PLUG (MICRO CONNECTOR)	13P
L6007	1-412-525-31	INDUCTOR	10UH	R6040	1-218-879-11	METAL CHIP	22K 0.5% 1/10W	C8120	1-117-662-31	FILM 0.18UF	5% 250V	CN8206	* 1-564-510-11	PLUG, CONNECTOR	7P
L6008	1-412-533-21	INDUCTOR	47UH	R6045	1-216-815-11	METAL CHIP	330 5% 1/10W	C8121	1-107-846-11	FILM 0.1UF	5.00% 400V	CN8211	* 1-785-270-12	PIN, DY CONNECTOR (PC BOARD)	
L6009	1-414-181-11	INDUCTOR	4.7UH	R6047	1-218-885-11	METAL CHIP	39K 0.5% 1/10W	C8122	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	CN8214	* 1-564-508-11	PLUG, CONNECTOR	5P
L6014	1-414-189-31	INDUCTOR	100UH	R6049	1-218-869-11	METAL CHIP	8.2K 0.5% 1/10W	C8124	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V	CN8215	* 1-816-977-51	PLUG, CONNECTOR	6P
< PHOTOCOUPLER >				R6050	1-218-823-11	METAL CHIP	100 0.5% 1/10W	C8125	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	CN8805	1-691-773-11	PLUG (MICRO CONNECTOR)	11P
PH6001 Δ	6-600-187-01	PHOTO COUPLER	PC123Y22J00F	R6054	1-211-981-11	METAL CHIP	33 0.5% 1/10W	C8126	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	CN8900	* 1-564-510-11	PLUG, CONNECTOR	7P
< TRANSISTOR >				R6057	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C8127	1-107-368-11	MYLAR 0.047UF	10.00% 200V	< DIODE >			
Q6003	8-729-010-29	TRANSISTOR MSD601-RST1		R6101	1-216-821-11	METAL CHIP	1K 5% 1/10W	C8128	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	D8100	1-535-303-00	LEAD, JUMPER (5.0MM)	
Q6005	8-729-901-06	TRANSISTOR DTA144EK		R6102	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C8129	1-102-030-00	CERAMIC 330PF	10.00% 500V	D8101	8-719-110-41	DIODE RD15ESB2	
Q6006	6-550-698-01	TRANSISTOR SPA08N50C3-E8152		R6105	1-216-821-11	METAL CHIP	1K 5% 1/10W	C8131	1-107-368-11	MYLAR 0.047UF	10.00% 200V	D8102	8-719-081-97	DIODE MMDL914T1	
Q6007	6-550-698-01	TRANSISTOR SPA08N50C3-E8152		R6106	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C8132	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V	D8103	8-719-081-97	DIODE MMDL914T1	
Q6010	8-729-010-29	TRANSISTOR MSD601-RST1		< RELAY >				C8133	1-102-935-00	CERAMIC 2PF	0.25PF 50V	D8104	8-719-081-97	DIODE MMDL914T1	
Q6102	8-729-010-29	TRANSISTOR MSD601-RST1		RY6001 Δ	1-755-388-11	RELAY (AC POWER)		C8136	1-126-964-11	ELECT 10UF	20.00% 50V	D8105	8-719-081-97	DIODE MMDL914T1	
< RESISTOR >				RY6002 Δ	1-755-388-11	RELAY (AC POWER)		C8138	1-102-030-00	CERAMIC 330PF	10.00% 500V	D8106	8-719-081-97	DIODE MMDL914T1	
JR6007	1-216-864-11	SHORT CHIP	0	< TRANSFORMER >				C8139	1-162-131-11	CERAMIC 220PF	10.00% 2KV	D8107	8-719-081-97	DIODE MMDL914T1	
R6003 Δ	1-202-933-61	FUSIBLE	0.1 10% 1/2W	T6001 Δ	1-428-896-11	COIL, LINE FILTER		C8140	1-117-836-11	FILM 6800PF	3.00% 1.5KV	D8108	8-719-921-40	DIODE MT2J-4.7C	
R6004 Δ	1-205-998-11	CEMENTED	1 5% 10W	T6002 Δ	1-443-059-11	TRANSFORMER, CONVERTER (PIT)		C8141	1-117-836-11	FILM 6800PF	3.00% 1.5KV	D8128	8-719-081-97	DIODE MMDL914T1	
R6005 Δ	1-205-998-11	CEMENTED	1 5% 10W	T6003 Δ	1-428-896-11	COIL, LINE FILTER		C8142	1-127-681-11	FILM 10000PF	2% 100V	D8132	8-719-081-97	DIODE MMDL914T1	
R6007	1-243-979-21	METAL OXIDE	0.1 5% 2W	T6101 Δ	1-443-114-11	TRANSFORMER, STANDBY		C8143	1-125-893-11	FILM 680PF	3.00% 1.5KV	D8133	8-719-081-97	DIODE MMDL914T1	
R6008	1-243-979-21	METAL OXIDE	0.1 5% 2W	< THERMISTOR >				C8144	1-125-893-11	FILM 680PF	3.00% 1.5KV	D8199	8-719-081-97	DIODE MMDL914T1	
R6009	1-218-875-11	METAL CHIP	15K 0.5% 1/10W	TH6002 Δ	1-804-650-11	THERMISTOR, POSITIVE		C8145	1-115-519-11	FILM 0.56UF	5.00% 250V	D8200	8-719-302-43	DIODE EL1Z	
R6010	1-245-478-21	METAL	470K 1% 1/4W	* A-1302-335-A D Board Complete				C8146	1-107-846-11	FILM 0.1UF	5.00% 400V	D8201	8-719-302-43	DIODE EL1Z	
R6011	1-245-494-21	METAL	2.2M 2% 1/4W	4-382-854-01	SCREW (M3X8), P, SW (+)			C8147	1-126-947-11	ELECT 47UF	20.00% 35V	D8203	8-719-085-12	DIODE BYV98-200-RAS 15/12	
R6012	1-245-494-21	METAL	2.2M 2% 1/4W	< CAPACITOR >				C8148	1-117-662-31	FILM 0.18UF	5% 250V	D8204	8-719-085-12	DIODE BYV98-200-RAS 15/12	
R6013 Δ	1-218-265-11	METAL	8.2M 5% 1W	C8100	1-136-497-81	FILM	0.1UF 5.00% 50V	C8200	1-165-441-81	ELECT 33UF	20% 160V	D8207	8-719-991-33	DIODE 1SS133T-77	
R6014	1-243-624-21	METAL OXIDE	33K 5% 3W	C8101	1-136-497-81	FILM	0.1UF 5.00% 50V	C8201	1-107-655-11	ELECT 47UF	20.00% 250V	D8208	8-719-991-33	DIODE 1SS133T-77	
R6015	1-211-992-11	METAL CHIP	91 0.5% 1/10W	C8102	1-136-497-81	FILM	0.1UF 5.00% 50V	C8202	1-102-228-00	CERAMIC 470PF	10.00% 500V	D8508	8-719-063-73	DIODE D1NL20U-TR	
R6016	1-216-821-11	METAL CHIP	1K 5% 1/10W	C8103	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V	C8203	1-102-228-00	CERAMIC 470PF	10.00% 500V	D8509	8-719-081-97	DIODE MMDL914T1	
R6017	1-216-833-11	METAL CHIP	10K 5% 1/10W	C8104	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V	C8204	1-102-228-00	CERAMIC 470PF	10.00% 500V	D8611	8-719-081-97	DIODE MMDL914T1	
R6018	1-260-131-11	CARBON	470K 5% 1/2W	C8105	1-126-947-11	ELECT 47UF	20.00% 35V	C8205	1-126-941-11	ELECT 470UF	20.00% 25V	D8612	8-719-081-97	DIODE MMDL914T1	
R6019	1-260-129-11	CARBON	330K 5% 1/2W	C8106	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V	C8206	1-126-941-11	ELECT 470UF	20.00% 25V	D8802	8-719-081-97	DIODE MMDL914T1	
R6020	1-216-820-11	METAL CHIP	820 5% 1/10W	C8107	1-218-869-11	METAL CHIP	8.2K 0.5% 1/10W	C8207	1-126-964-11	ELECT 10UF	20.00% 50V	D8803	8-719-081-97	DIODE MMDL914T1	
R6021	1-243-946-21	METAL OXIDE	0.27 5% 2W	C8108	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C8209	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V	< FERRITE BEAD >			
R6022	1-216-833-11	METAL CHIP	10K 5% 1/10W	C8109	1-126-947-11	ELECT 47UF	20.00% 35V	C8210	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	FB8100	1-410-397-21	FERRITE	1.1UH

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
< IC >				Q8132	8-729-421-19	TRANSISTOR UN2213		R8138	1-218-887-11	METAL CHIP	47K 0.5% 1/10W	R8204	Δ 1-202-972-61	FUSIBLE	1 5% 1/4W
IC8100	8-759-665-11	IC LM393DT		Q8201	8-729-010-29	TRANSISTOR MSD601-RST1		R8139	1-218-887-11	METAL CHIP	47K 0.5% 1/10W	R8205	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
IC8101	8-759-665-11	IC LM393DT		Q8202	8-729-010-29	TRANSISTOR MSD601-RST1		R8140	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8206	1-249-443-11	CARBON	0.47 5% 1/4W
IC8102	8-759-638-79	IC NJM3404AD-W		Q8203	8-729-010-29	TRANSISTOR MSD601-RST1		R8141	1-243-584-21	METAL OXIDE	4.7K 5% 2W	R8207	1-249-443-11	CARBON	0.47 5% 1/4W
IC8103	8-759-659-67	IC LA6393DLL		Q8455	8-729-010-29	TRANSISTOR MSD601-RST1		R8142	1-260-340-11	CARBON	10K 5% 1/2W	R8208	1-216-838-11	METAL CHIP	27K 5% 1/10W
IC8527	8-759-701-01	IC NJM2904M		Q8508	8-729-010-29	TRANSISTOR MSD601-RST1		R8143	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8209	1-216-833-11	METAL CHIP	10K 5% 1/10W
< COIL >				Q8509	8-729-010-29	TRANSISTOR MSD601-RST1		R8144	1-215-895-21	METAL OXIDE	3.3K 5% 2W	R8210	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
L8101	1-406-985-11	INDUCTOR	2.2MH	Q8510	8-729-140-93	TRANSISTOR 2SB733-34		R8145	1-215-895-21	METAL OXIDE	3.3K 5% 2W	R8211	1-216-833-11	METAL CHIP	10K 5% 1/10W
L8102	1-414-928-21	INDUCTOR	1UH	Q8512	8-729-053-33	TRANSISTOR IRF614-037		R8146	1-260-340-11	CARBON	10K 5% 1/2W	R8212	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
L8103	1-414-928-21	INDUCTOR	1UH	< RESISTOR >				R8147	1-243-949-21	METAL OXIDE	0.47 5% 2W	R8215	1-218-887-11	METAL CHIP	47K 0.5% 1/10W
L8104	1-414-928-21	INDUCTOR	1UH	JR8460	1-216-864-11	SHORT CHIP	0	R8148	1-215-880-71	METAL OXIDE	10 5% 2W	R8216	1-218-887-11	METAL CHIP	47K 0.5% 1/10W
L8201	1-410-397-21	FERRITE	1.1UH	R8100	1-216-813-11	METAL CHIP	220 5% 1/10W	R8149	1-216-821-11	METAL CHIP	1K 5% 1/10W	R8217	1-216-833-11	METAL CHIP	10K 5% 1/10W
L8202	1-410-397-21	FERRITE	1.1UH	R8101	1-216-813-11	METAL CHIP	220 5% 1/10W	R8150	1-216-821-11	METAL CHIP	1K 5% 1/10W	R8218	1-249-443-11	CARBON	0.47 5% 1/4W
L8203	1-410-397-21	FERRITE	1.1UH	R8102	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8151	1-216-361-00	METAL OXIDE	0.22 5% 2W	R8219	1-249-443-11	CARBON	0.47 5% 1/4W
L8503	1-535-303-00	LEAD, JUMPER	(5.0MM)	R8103	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8152	1-215-880-71	METAL OXIDE	10 5% 2W	R8220	1-216-821-11	METAL CHIP	1K 5% 1/10W
L8504	1-535-303-00	LEAD, JUMPER	(5.0MM)	R8104	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8153	1-247-807-31	CARBON	100 5% 1/4W	R8222	1-216-341-11	METAL OXIDE	0.22 5% 1W
L8569	1-406-989-21	INDUCTOR	10MH	R8105	1-216-821-11	METAL CHIP	1K 5% 1/10W	R8154	1-216-845-11	METAL CHIP	100K 5% 1/10W	R8456	1-218-889-11	METAL CHIP	56K 0.5% 1/10W
L8576	1-406-989-21	INDUCTOR	10MH	R8106	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8155	1-216-853-11	METAL CHIP	470K 5% 1/10W	R8459	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
< TRANSISTOR >				R8107	1-218-857-11	METAL CHIP	2.7K 0.5% 1/10W	R8156	1-215-489-00	METAL	680K 1% 1/4W	R8538	1-216-849-11	METAL CHIP	220K 5% 1/10W
Q8100	8-729-010-29	TRANSISTOR MSD601-RST1		R8108	1-218-857-11	METAL CHIP	2.7K 0.5% 1/10W	R8157	1-215-493-00	METAL	1M 1% 1/4W	R8539	1-216-845-11	METAL CHIP	100K 5% 1/10W
Q8101	8-729-010-29	TRANSISTOR MSD601-RST1		R8109	1-218-879-11	METAL CHIP	22K 0.5% 1/10W	R8158	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W	R8540	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q8102	8-729-010-29	TRANSISTOR MSD601-RST1		R8110	1-218-879-11	METAL CHIP	22K 0.5% 1/10W	R8159	1-216-864-11	SHORT CHIP	0	R8541	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
Q8103	8-729-010-29	TRANSISTOR MSD601-RST1		R8111	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8160	1-216-864-11	SHORT CHIP	0	R8542	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q8104	8-729-010-29	TRANSISTOR MSD601-RST1		R8112	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8161	1-218-869-11	METAL CHIP	8.2K 0.5% 1/10W	R8543	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q8105	8-729-010-29	TRANSISTOR MSD601-RST1		R8113	1-216-833-11	METAL CHIP	10K 5% 1/10W	R8162	1-216-821-11	METAL CHIP	1K 5% 1/10W	R8544	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q8106	8-729-010-29	TRANSISTOR MSD601-RST1		R8114	1-216-833-11	METAL CHIP	10K 5% 1/10W	R8163	1-216-833-11	METAL CHIP	10K 5% 1/10W	R8545	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q8107	8-729-010-29	TRANSISTOR MSD601-RST1		R8115	1-216-845-11	METAL CHIP	100K 5% 1/10W	R8165	1-218-889-11	METAL CHIP	56K 0.5% 1/10W	R8550	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
Q8108	8-729-010-05	TRANSISTOR MSB709-RT1		R8116	1-216-845-11	METAL CHIP	100K 5% 1/10W	R8166	1-247-807-31	CARBON	100 5% 1/4W	R8552	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
Q8109	8-729-048-47	TRANSISTOR 2SC2688(5)-LK		R8117	1-216-833-11	METAL CHIP	10K 5% 1/10W	R8167	1-215-493-00	METAL	1M 1% 1/4W	R8565	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
Q8110	8-729-010-05	TRANSISTOR MSB709-RT1		R8118	1-216-833-11	METAL CHIP	10K 5% 1/10W	R8168	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R8566	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q8111	8-729-048-47	TRANSISTOR 2SC2688(5)-LK		R8119	1-216-833-11	METAL CHIP	10K 5% 1/10W	R8169	1-218-895-11	METAL CHIP	100K 0.5% 1/10W	R8567	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q8112	8-729-010-29	TRANSISTOR MSD601-RST1		R8120	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8170	1-216-815-11	METAL CHIP	330 5% 1/10W	R8568	1-216-813-11	METAL CHIP	220 5% 1/10W
Q8113	8-729-010-29	TRANSISTOR MSD601-RST1		R8121	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8171	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8570	1-243-554-21	METAL OXIDE	15 5% 2W
Q8114	6-550-827-01	TRANSISTOR ST2310DHI (041Y)		R8122	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8174	1-216-837-11	METAL CHIP	22K 5% 1/10W	R8571	1-243-555-21	METAL OXIDE	18 5% 2W
Q8115	8-729-010-05	TRANSISTOR MSB709-RT1		R8123	1-216-841-11	METAL CHIP	47K 5% 1/10W	R8176	1-216-833-11	METAL CHIP	10K 5% 1/10W	R8572	1-215-882-21	METAL OXIDE	22 5% 2W
Q8116	6-550-827-01	TRANSISTOR ST2310DHI (041Y)		R8124	1-216-821-11	METAL CHIP	1K 5% 1/10W	R8177	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R8573	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q8117	8-729-050-48	TRANSISTOR IRF614-005		R8125	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8178	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	R8574	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q8118	8-729-010-29	TRANSISTOR MSD601-RST1		R8126	1-216-815-11	METAL CHIP	330 5% 1/10W	R8179	1-216-864-11	SHORT CHIP	0	R8575	1-216-817-11	METAL CHIP	470 5% 1/10W
Q8119	8-729-010-05	TRANSISTOR MSB709-RT1		R8127	1-218-865-11	METAL CHIP	5.6K 0.5% 1/10W	R8180	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8804	1-249-408-11	CARBON	180 5% 1/4W
Q8120	8-729-010-05	TRANSISTOR MSB709-RT1		R8128	1-218-887-11	METAL CHIP	47K 0.5% 1/10W	R8181	1-249-409-11	CARBON	220 5% 1/4W	R8805	1-249-408-11	CARBON	180 5% 1/4W
Q8121	6-550-721-01	TRANSISTOR 2SK2679 (LBS2SONY.Q)		R8129	1-218-887-11	METAL CHIP	47K 0.5% 1/10W	R8182	1-216-841-11	METAL CHIP	47K 5% 1/10W	R8806	1-249-411-11	CARBON	330 5% 1/4W
Q8122	8-729-010-05	TRANSISTOR MSB709-RT1		R8130	1-218-908-91	METAL CHIP	360K 0.5% 1/10W	R8183	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8807	1-249-411-11	CARBON	330 5% 1/4W
Q8123	8-729-010-05	TRANSISTOR MSB709-RT1		R8131	1-216-815-11	METAL CHIP	330 5% 1/10W	R8186	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8868	1-218-869-11	METAL CHIP	8.2K 0.5% 1/10W
Q8125	8-729-010-29	TRANSISTOR MSD601-RST1		R8132	1-216-815-11	METAL CHIP	330 5% 1/10W	R8188	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	R8885	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
Q8126	8-729-010-05	TRANSISTOR MSB709-RT1		R8133	1-216-815-11	METAL CHIP	330 5% 1/10W	R8189	1-216-821-11	METAL CHIP	1K 5% 1/10W	R8886	1-218-875-11	METAL CHIP	15K 0.5% 1/10W
Q8127	8-729-010-05	TRANSISTOR MSB709-RT1		R8135	1-243-584-21	METAL OXIDE	4.7K 5% 2W	R8190	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	< TRANSFORMER >			
Q8128	8-729-010-29	TRANSISTOR MSD601-RST1		R8136	1-218-887-11	METAL CHIP	47K 0.5% 1/10W	R8191	1-243-622-21	METAL OXIDE	22K 5% 3W	T8100	1-433-489-31	TRANSFORMER, FERRITE (HDT)	
				R8137	1-218-887-11	METAL CHIP	47K 0.5% 1/10W	R8196	1-249-377-11	CARBON	0.47 5% 1/4W	T8101	1-433-489-31	TRANSFORMER, FERRITE (HDT)	
								R8201	1-260-123-11	CARBON	100K 5% 1/2W	T8202	1-437-614-11	TRANSFORMER, HORIZONTAL OUTPUT	
								R8203	1-216-864-11	SHORT CHIP	0				

REF.NO.	PART.NO	DESCRIPTION	REMARK
* A-1302-336-A B Board Complete			
	1-785-449-12	SOCKET, IC	
	4-087-203-01	PLASTIC RIVET	
< CAPACITOR >			
C0005	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
C0006	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
C0007	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C0008	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0009	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C0011	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0013	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0015	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0016	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0017	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0018	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0020	1-126-947-11	ELECT 47UF	20.00% 35V
C0021	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0023	1-126-933-11	ELECT 100UF	20.00% 16V
C0025	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0026	1-126-947-11	ELECT 47UF	20.00% 35V
C0028	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0029	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0032	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0033	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0035	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0038	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0039	1-126-947-11	ELECT 47UF	20.00% 35V
C0041	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0043	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0045	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0047	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0048	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0051	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0053	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0054	1-126-947-11	ELECT 47UF	20.00% 35V
C0055	1-126-947-11	ELECT 47UF	20.00% 35V
C0056	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0059	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0060	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
C0061	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0062	1-126-947-11	ELECT 47UF	20.00% 35V
C0063	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
C0064	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
C0065	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C0066	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3101	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C3102	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C3103	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C3104	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C3105	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C3106	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C3107	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3108	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3109	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3110	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3121	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3122	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3123	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3124	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3127	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3129	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3130	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3131	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3132	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3133	1-126-947-11	ELECT 47UF	20.00% 35V
C3134	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3135	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C3136	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3137	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C3138	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3139	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3140	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3141	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3142	1-126-947-11	ELECT 47UF	20.00% 35V
C3143	1-126-947-11	ELECT 47UF	20.00% 35V
C3144	1-126-947-11	ELECT 47UF	20.00% 35V
C3145	1-126-947-11	ELECT 47UF	20.00% 35V
C3147	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3148	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3300	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3301	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3302	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3303	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3304	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3305	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3306	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3307	1-126-947-11	ELECT 47UF	20.00% 35V
C3308	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3309	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3310	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3311	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3312	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C3313	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C3314	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3315	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3316	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3317	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3318	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3319	1-126-947-11	ELECT 47UF	20.00% 35V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C3320	1-126-947-11	ELECT 47UF	20.00% 35V
C3321	1-115-758-11	ELECT 470UF	20.00% 16V
C3324	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3402	1-126-947-11	ELECT 47UF	20.00% 35V
C3403	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3405	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3406	1-126-947-11	ELECT 47UF	20.00% 35V
C3407	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3408	1-126-947-11	ELECT 47UF	20.00% 35V
C3409	1-126-963-11	ELECT 4.7UF	20.00% 50V
C3410	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3411	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3412	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3413	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3414	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3415	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3416	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3421	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3422	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3426	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3431	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3432	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3433	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C3434	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3435	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C3436	1-126-947-11	ELECT 47UF	20.00% 35V
C3800	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3801	1-126-947-11	ELECT 47UF	20.00% 35V
C3802	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3803	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3804	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3805	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3806	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3807	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3808	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3809	1-126-947-11	ELECT 47UF	20.00% 35V
C3810	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3811	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3812	1-126-947-11	ELECT 47UF	20.00% 35V
C3813	1-126-947-11	ELECT 47UF	20.00% 35V
C3814	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3815	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3816	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3817	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3818	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3819	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3820	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3821	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3822	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3823	1-164-156-11	CERAMIC CHIP 0.1UF	25V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C3824	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3825	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3826	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3827	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3828	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3829	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3830	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3831	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3832	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C3833	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3834	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3835	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3836	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3837	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3838	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3839	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3840	1-126-947-11	ELECT 47UF	20.00% 35V
C3841	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C3842	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C3844	1-126-947-11	ELECT 47UF	20.00% 35V
C3845	1-126-947-11	ELECT 47UF	20.00% 35V
C3846	1-126-959-11	ELECT 0.47UF	20.00% 50V
C3847	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3848	1-126-947-11	ELECT 47UF	20.00% 35V
C3849	1-164-388-91	CERAMIC CHIP 270PF	5.00% 50V
C3851	1-126-947-11	ELECT 47UF	20.00% 35V
C3853	1-126-960-11	ELECT 1UF	20.00% 50V
C3854	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C3855	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C3856	1-126-947-11	ELECT 47UF	20.00% 35V
C3857	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3858	1-126-960-11	ELECT 1UF	20.00% 50V
C3859	1-126-947-11	ELECT 47UF	20.00% 35V
C3861	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C3864	1-126-959-11	ELECT 0.47UF	20.00% 50V
C3865	1-126-947-11	ELECT 47UF	20.00% 35V
C3866	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3867	1-126-963-11	ELECT 4.7UF	20.00% 50V
C3868	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3869	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3870	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3871	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V
C3872	1-126-947-11	ELECT 47UF	20.00% 35V
C3874	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3875	1-125-891-11	CERAMIC CHIP 0.47UF	10.00% 10V
C3876	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3877	1-162-917-11	CERAMIC CHIP 15PF	5.00% 50V
C3879	1-126-947-11	ELECT 47UF	20.00% 35V
C3882	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C3883	1-164-156-11	CERAMIC CHIP 0.1UF	25V

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C3884	1-164-156-11	CERAMIC CHIP 0.1UF	25V	L0007	1-414-928-21	INDUCTOR	1UH
C5503	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	L0008	1-414-928-21	INDUCTOR	1UH
C5504	1-218-899-11	METAL CHIP 150K	0.5% 1/16W	L3100	1-414-928-21	INDUCTOR	1UH
C5508	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	L3104	1-414-928-21	INDUCTOR	1UH
C5509	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	L3105	1-414-928-21	INDUCTOR	1UH
C5510	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V	L3106	1-414-928-21	INDUCTOR	1UH
C5511	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	L3107	1-414-928-21	INDUCTOR	1UH
C5516	1-164-156-11	CERAMIC CHIP 0.1UF	25V	L3300	1-414-928-21	INDUCTOR	1UH
C5518	1-164-156-11	CERAMIC CHIP 0.1UF	25V	L3301	1-414-928-21	INDUCTOR	1UH
C5558	1-126-947-11	ELECT 47UF	20.00% 35V	L3302	1-414-928-21	INDUCTOR	1UH
< CONNECTOR >				L3303	1-410-397-21	FERRITE	1.1UH
CN3100	1-794-244-11	CONNECTOR, DIN (PLUG) 96P		L3400	1-414-928-21	INDUCTOR	1UH
CN3400	* 1-564-524-11	PLUG, CONNECTOR 9P		L3401	1-414-928-21	INDUCTOR	1UH
CN3402	* 1-564-519-11	PLUG, CONNECTOR 4P		L3402	1-414-928-21	INDUCTOR	1UH
< DIODE >				L3403	1-414-928-21	INDUCTOR	1UH
D0069	8-719-083-57	DIODE UDZSTE-173.6B		L3404	1-414-928-21	INDUCTOR	1UH
D0070	8-719-081-97	DIODE MMDL914T1		L3800	1-414-928-21	INDUCTOR	1UH
D0071	8-719-081-97	DIODE MMDL914T1		L3801	1-414-928-21	INDUCTOR	1UH
D5500	8-719-069-55	DIODE UDZSTE-175.6B		L3802	1-414-928-21	INDUCTOR	1UH
D5501	8-719-083-57	DIODE UDZSTE-173.6B		L3803	1-414-928-21	INDUCTOR	1UH
D5502	6-500-028-01	DIODE MM3Z9V1ST1		L3805	1-414-928-21	INDUCTOR	1UH
D5504	8-719-081-97	DIODE MMDL914T1		L3806	1-414-928-21	INDUCTOR	1UH
D5505	8-719-081-97	DIODE MMDL914T1		L3807	1-414-928-21	INDUCTOR	1UH
D5506	8-719-081-97	DIODE MMDL914T1		L3808	1-412-987-31	INDUCTOR	4.7UH
< FILTER >				L3809	1-414-928-21	INDUCTOR	1UH
FL3800	1-233-765-21	FILTER		L3810	1-414-928-21	INDUCTOR	1UH
FL3801	1-233-765-21	FILTER		L3856	1-414-928-21	INDUCTOR	1UH
< IC >				L5549	1-414-928-21	INDUCTOR	1UH
IC0001	6-704-964-01	IC SDA6001-B12T		< TRANSISTOR >			
IC0002	8-759-682-41	IC M24C32-WMN6T(A)		Q0001	8-729-010-05	TRANSISTOR MSB709-RT1	
IC0003	6-704-312-01	IC K4S641632F-UC75T		Q0002	8-729-010-05	TRANSISTOR MSB709-RT1	
IC0005	6-803-810-06	IC M27V160-100K1-6BA006		Q0003	8-729-010-05	TRANSISTOR MSB709-RT1	
IC0006	6-702-313-01	IC PST600IMT		Q0005	8-729-010-29	TRANSISTOR MSD601-RST1	
IC0007	8-759-352-91	IC PST9143NL		Q0075	8-729-010-29	TRANSISTOR MSD601-RST1	
IC3100	6-803-528-01	IC VSP9417BC3G		Q3400	8-729-010-29	TRANSISTOR MSD601-RST1	
IC3300	6-705-124-01	IC FRC9429A-A1		Q3401	8-729-010-29	TRANSISTOR MSD601-RST1	
IC3400	6-705-123-01	IC DDP3316C-H5		Q3402	8-729-010-29	TRANSISTOR MSD601-RST1	
IC3800	6-704-312-01	IC K4S641632F-UC75T		Q3403	8-729-010-29	TRANSISTOR MSD601-RST1	
IC3801	8-752-424-79	IC CXD3804R-T6		Q3404	8-729-010-29	TRANSISTOR MSD601-RST1	
IC3802	8-752-086-80	IC CXA2019AQ-T4		Q3405	8-729-010-29	TRANSISTOR MSD601-RST1	
< COIL >				Q3406	8-729-010-05	TRANSISTOR MSB709-RT1	
L0002	1-414-928-21	INDUCTOR	1UH	Q3409	8-729-010-29	TRANSISTOR MSD601-RST1	
L0003	1-414-928-21	INDUCTOR	1UH	Q3410	8-729-010-29	TRANSISTOR MSD601-RST1	
L0004	1-414-928-21	INDUCTOR	1UH	Q3800	8-729-010-29	TRANSISTOR MSD601-RST1	
L0006	1-414-928-21	INDUCTOR	1UH	Q3801	8-729-010-29	TRANSISTOR MSD601-RST1	
				Q3802	8-729-010-29	TRANSISTOR MSD601-RST1	
				Q3803	8-729-010-29	TRANSISTOR MSD601-RST1	
				Q3805	8-729-010-29	TRANSISTOR MSD601-RST1	
				Q3806	8-729-010-29	TRANSISTOR MSD601-RST1	

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
Q3807	8-729-010-29	TRANSISTOR MSD601-RST1		R0026	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3808	8-729-010-29	TRANSISTOR MSD601-RST1		R0027	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3811	8-729-010-05	TRANSISTOR MSB709-RT1		R0028	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q3812	8-729-010-29	TRANSISTOR MSD601-RST1		R0029	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3814	8-729-010-29	TRANSISTOR MSD601-RST1		R0030	1-216-809-11	METAL CHIP	100 5% 1/10W
Q3816	8-729-010-05	TRANSISTOR MSB709-RT1		R0031	1-216-809-11	METAL CHIP	100 5% 1/10W
Q5500	8-729-010-29	TRANSISTOR MSD601-RST1		R0032	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
Q5503	8-729-010-29	TRANSISTOR MSD601-RST1		R0033	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
Q5505	8-729-010-29	TRANSISTOR MSD601-RST1		R0034	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q5507	8-729-010-05	TRANSISTOR MSB709-RT1		R0035	1-216-809-11	METAL CHIP	100 5% 1/10W
Q5509	8-729-010-29	TRANSISTOR MSD601-RST1		R0036	1-216-809-11	METAL CHIP	100 5% 1/10W
Q5519	8-729-010-29	TRANSISTOR MSD601-RST1		R0037	1-216-809-11	METAL CHIP	100 5% 1/10W
Q5550	8-729-010-29	TRANSISTOR MSD601-RST1		R0038	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
< RESISTOR >				R0039	1-216-809-11	METAL CHIP	100 5% 1/10W
JR0002	1-216-864-11	SHORT CHIP	0	R0040	1-216-809-11	METAL CHIP	100 5% 1/10W
JR0003	1-216-864-11	SHORT CHIP	0	R0041	1-216-815-11	METAL CHIP	330 5% 1/10W
JR0004	1-216-864-11	SHORT CHIP	0	R0042	1-216-809-11	METAL CHIP	100 5% 1/10W
JR0008	1-216-864-11	SHORT CHIP	0	R0043	1-216-864-11	SHORT CHIP	0
JR0010	1-216-864-11	SHORT CHIP	0	R0044	1-216-809-11	METAL CHIP	100 5% 1/10W
JR0011	1-216-864-11	SHORT CHIP	0	R0045	1-216-809-11	METAL CHIP	100 5% 1/10W
JR3400	1-216-864-11	SHORT CHIP	0	R0046	1-216-833-11	METAL CHIP	10K 5% 1/10W
JR3401	1-216-864-11	SHORT CHIP	0	R0047	1-216-809-11	METAL CHIP	100 5% 1/10W
JR3404	1-216-864-11	SHORT CHIP	0	R0048	1-216-809-11	METAL CHIP	100 5% 1/10W
JR3406	1-216-864-11	SHORT CHIP	0	R0049	1-216-809-11	METAL CHIP	100 5% 1/10W
JR3408	1-216-864-11	SHORT CHIP	0	R0052	1-216-809-11	METAL CHIP	100 5% 1/10W
JR3409	1-216-864-11	SHORT CHIP	0	R0053	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
JR5581	1-414-760-21	FERRITE	00H	R0056	1-216-809-11	METAL CHIP	100 5% 1/10W
R0001	1-216-833-11	METAL CHIP	10K 5% 1/10W	R0057	1-216-809-11	METAL CHIP	100 5% 1/10W
R0002	1-216-833-11	METAL CHIP	10K 5% 1/10W	R0059	1-216-809-11	METAL CHIP	100 5% 1/10W
R0003	1-216-833-11	METAL CHIP	10K 5% 1/10W	R0060	1-216-809-11	METAL CHIP	100 5% 1/10W
R0004	1-216-816-11	METAL CHIP	390 5% 1/10W	R0063	1-216-809-11	METAL CHIP	100 5% 1/10W
R0005	1-216-816-11	METAL CHIP	390 5% 1/10W	R0064	1-216-809-11	METAL CHIP	100 5% 1/10W
R0006	1-216-816-11	METAL CHIP	390 5% 1/10W	R0065	1-216-833-11	METAL CHIP	10K 5% 1/10W
R0007	1-216-817-11	METAL CHIP	470 5% 1/10W	R0066	1-216-833-11	METAL CHIP	10K 5% 1/10W
R0008	1-216-817-11	METAL CHIP	470 5% 1/10W	R0067	1-216-833-11	METAL CHIP	10K 5% 1/10W
R0009	1-216-817-11	METAL CHIP	470 5% 1/10W	R0068	1-216-833-11	METAL CHIP	10K 5% 1/10W
R0011	1-216-864-11	SHORT CHIP	0	R0069	1-216-833-11	METAL CHIP	10K 5% 1/10W
R0014	1-216-805-11	METAL CHIP	47 5% 1/10W	R0070	1-216-809-11	METAL CHIP	100 5% 1/10W
R0015	1-216-805-11	METAL CHIP	47 5% 1/10W	R0071	1-216-849-11	METAL CHIP	220K 5% 1/10W
R0016	1-216-805-11	METAL CHIP	47 5% 1/10W	R0072	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R0017	1-216-821-11	METAL CHIP	1K 5% 1/10W	R0073	1-216-833-11	METAL CHIP	10K 5% 1/10W
R0018	1-216-864-11	SHORT CHIP	0	R0074	1-216-864-11	SHORT CHIP	0
R0019	1-216-809-11	METAL CHIP	100 5% 1/10W	R0075	1-216-809-11	METAL CHIP	100 5% 1/10W
R0020	1-216-833-11	METAL CHIP	10K 5% 1/10W	R0076	1-216-864-11	SHORT CHIP	0
R0021	1-216-809-11	METAL CHIP	100 5% 1/10W	R0079	1-216-864-11	SHORT CHIP	0
R0022	1-216-864-11	SHORT CHIP	0	R0080	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R0023	1-216-833-11	METAL CHIP	10K 5% 1/10W	R0081	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R0025	1-216-809-11	METAL CHIP	100 5% 1/10W	R0082	1-216-809-11	METAL CHIP	100 5% 1/10W
				R0083	1-216-809-11	METAL CHIP	100 5% 1/10W
				R0084	1-216-833-11	METAL CHIP	10K 5% 1/10W

REF.NO.	PART.NO	DESCRIPTION	REMARK			REF.NO.	PART.NO	DESCRIPTION	REMARK			REF.NO.	PART.NO	DESCRIPTION	REMARK			REF.NO.	PART.NO	DESCRIPTION	REMARK		
R0085	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3408	1-216-797-11	METAL CHIP	10	5%	1/10W	R3826	1-216-817-11	METAL CHIP	470	5%	1/10W	R5501	1-216-821-11	METAL CHIP	1K	5%	1/10W
R0086	1-216-809-11	METAL CHIP	100	5%	1/10W	R3409	1-216-864-11	SHORT CHIP	0			R3829	1-216-817-11	METAL CHIP	470	5%	1/10W	R5502	1-216-809-11	METAL CHIP	100	5%	1/10W
R0087	1-216-809-11	METAL CHIP	100	5%	1/10W	R3410	1-216-797-11	METAL CHIP	10	5%	1/10W	R3830	1-216-841-11	METAL CHIP	47K	5%	1/10W	R5503	1-216-817-11	METAL CHIP	470	5%	1/10W
R0088	1-216-809-11	METAL CHIP	100	5%	1/10W	R3412	1-216-864-11	SHORT CHIP	0			R3833	1-216-809-11	METAL CHIP	100	5%	1/10W	R5504	1-216-809-11	METAL CHIP	100	5%	1/10W
R0089	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R3413	1-216-864-11	SHORT CHIP	0			R3834	1-216-841-11	METAL CHIP	47K	5%	1/10W	R5505	1-216-809-11	METAL CHIP	100	5%	1/10W
R0092	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3414	1-216-809-11	METAL CHIP	100	5%	1/10W	R3836	1-216-817-11	METAL CHIP	470	5%	1/10W	R5507	1-216-809-11	METAL CHIP	100	5%	1/10W
R0093	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3415	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	R3837	1-216-817-11	METAL CHIP	470	5%	1/10W	R5508	1-216-797-11	METAL CHIP	10	5%	1/10W
R0095	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3416	1-218-837-11	METAL CHIP	390	0.5%	1/10W	R3838	1-216-864-11	SHORT CHIP	0			R5510	1-216-809-11	METAL CHIP	100	5%	1/10W
R0099	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3417	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	R3839	1-216-817-11	METAL CHIP	470	5%	1/10W	R5511	1-216-809-11	METAL CHIP	100	5%	1/10W
R0102	1-216-864-11	SHORT CHIP	0			R3419	1-216-817-11	METAL CHIP	470	5%	1/10W	R3840	1-216-864-11	SHORT CHIP	0			R5512	1-216-838-11	METAL CHIP	27K	5%	1/10W
R0108	1-216-864-11	SHORT CHIP	0			R3421	1-216-817-11	METAL CHIP	470	5%	1/10W	R3841	1-216-817-11	METAL CHIP	470	5%	1/10W	R5513	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R0137	1-216-839-11	METAL CHIP	33K	5%	1/10W	R3422	1-216-809-11	METAL CHIP	100	5%	1/10W	R3845	1-216-801-11	METAL CHIP	22	5%	1/10W	R5516	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R3100	1-216-864-11	SHORT CHIP	0			R3423	1-216-817-11	METAL CHIP	470	5%	1/10W	R3846	1-216-809-11	METAL CHIP	100	5%	1/10W	R5517	1-216-809-11	METAL CHIP	100	5%	1/10W
R3103	1-216-864-11	SHORT CHIP	0			R3427	1-216-820-11	METAL CHIP	820	5%	1/10W	R3847	1-216-809-11	METAL CHIP	100	5%	1/10W	R5518	1-216-809-11	METAL CHIP	100	5%	1/10W
R3104	1-216-864-11	SHORT CHIP	0			R3428	1-216-820-11	METAL CHIP	820	5%	1/10W	R3849	1-216-801-11	METAL CHIP	22	5%	1/10W	R5523	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R3106	1-216-864-11	SHORT CHIP	0			R3429	1-216-820-11	METAL CHIP	820	5%	1/10W	R3850	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W	R5524	1-216-838-11	METAL CHIP	27K	5%	1/10W
R3108	1-216-864-11	SHORT CHIP	0			R3434	1-216-864-11	SHORT CHIP	0			R3851	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W	R5526	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3109	1-216-809-11	METAL CHIP	100	5%	1/10W	R3436	1-216-864-11	SHORT CHIP	0			R3852	1-218-831-11	METAL CHIP	220	0.5%	1/10W	R5528	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3110	1-216-809-11	METAL CHIP	100	5%	1/10W	R3437	1-216-864-11	SHORT CHIP	0			R3853	1-216-809-11	METAL CHIP	100	5%	1/10W	R5529	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3112	1-216-809-11	METAL CHIP	100	5%	1/10W	R3438	1-216-864-11	SHORT CHIP	0			R3854	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5532	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3113	1-216-809-11	METAL CHIP	100	5%	1/10W	R3442	1-216-864-11	SHORT CHIP	0			R3855	1-218-839-11	METAL CHIP	470	0.5%	1/10W	R5539	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R3114	1-216-864-11	SHORT CHIP	0			R3443	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	R3856	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R5541	1-216-864-11	SHORT CHIP	0		
R3115	1-216-864-11	SHORT CHIP	0			R3444	1-216-809-11	METAL CHIP	100	5%	1/10W	R3857	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R5543	1-216-838-11	METAL CHIP	27K	5%	1/10W
R3117	1-216-864-11	SHORT CHIP	0			R3445	1-216-809-11	METAL CHIP	100	5%	1/10W	R3859	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5544	1-216-849-11	METAL CHIP	220K	5%	1/10W
R3165	1-216-845-11	METAL CHIP	100K	5%	1/10W	R3446	1-216-811-11	METAL CHIP	150	5%	1/10W	R3860	1-216-813-11	METAL CHIP	220	5%	1/10W	R5545	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3270	1-216-864-11	SHORT CHIP	0			R3450	1-218-837-11	METAL CHIP	390	0.5%	1/10W	R3861	1-216-821-11	METAL CHIP	1K	5%	1/10W	R5548	1-216-809-11	METAL CHIP	100	5%	1/10W
R3271	1-216-864-11	SHORT CHIP	0			R3451	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3862	1-216-809-11	METAL CHIP	100	5%	1/10W	R5549	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3272	1-216-864-11	SHORT CHIP	0			R3452	1-216-817-11	METAL CHIP	470	5%	1/10W	R3863	1-216-864-11	SHORT CHIP	0			R5550	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3300	1-216-809-11	METAL CHIP	100	5%	1/10W	R3471	1-216-809-11	METAL CHIP	100	5%	1/10W	R3864	1-216-809-11	METAL CHIP	100	5%	1/10W	R5551	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3301	1-216-809-11	METAL CHIP	100	5%	1/10W	R3800	1-216-864-11	SHORT CHIP	0			R3865	1-216-864-11	SHORT CHIP	0			R5552	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3302	1-216-864-11	SHORT CHIP	0			R3801	1-216-841-11	METAL CHIP	47K	5%	1/10W	R3866	1-216-864-11	SHORT CHIP	0			R5555	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3303	1-216-864-11	SHORT CHIP	0			R3802	1-216-841-11	METAL CHIP	47K	5%	1/10W	R3868	1-216-817-11	METAL CHIP	470	5%	1/10W	R5556	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3306	1-216-864-11	SHORT CHIP	0			R3803	1-216-813-11	METAL CHIP	220	5%	1/10W	R3869	1-216-864-11	SHORT CHIP	0			R5557	1-216-809-11	METAL CHIP	100	5%	1/10W
R3307	1-216-864-11	SHORT CHIP	0			R3804	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R3870	1-218-907-11	METAL CHIP	330K	0.5%	1/10W	R5558	1-216-809-11	METAL CHIP	100	5%	1/10W
R3308	1-216-864-11	SHORT CHIP	0			R3806	1-216-864-11	SHORT CHIP	0			R3871	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R5559	1-216-864-11	SHORT CHIP	0		
R3311	1-216-864-11	SHORT CHIP	0			R3807	1-216-818-11	METAL CHIP	560	5%	1/10W	R3874	1-216-819-11	METAL CHIP	680	5%	1/10W	R5560	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3314	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3808	1-216-864-11	SHORT CHIP	0			R3875	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R5561	1-216-821-11	METAL CHIP</			

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
RB0035	1-233-576-11	RES, CHIP NETWORK 100	(3216)	C6810	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	D6803	8-719-081-97	DIODE MMDL914T1		Q6810	8-729-010-29	TRANSISTOR MSD601-RST1	
RB0036	1-233-576-11	RES, CHIP NETWORK 100	(3216)	C6811	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V	D6809	8-719-083-94	DIODE FUF4005		Q6811	8-729-901-06	TRANSISTOR DTA144EK	
RB0037	1-233-576-11	RES, CHIP NETWORK 100	(3216)	C6812	1-130-495-00	MYLAR 0.1UF	5.00% 50V	D6814	8-719-063-73	DIODE DINL20U-TR		Q6812	8-729-010-05	TRANSISTOR MSB709-RT1	
RB0038	1-233-576-11	RES, CHIP NETWORK 100	(3216)	C6813	1-126-947-11	ELECT 47UF	20.00% 35V	D6815	8-719-976-99	DIODE DTZ5.1B		Q6813	8-729-010-29	TRANSISTOR MSD601-RST1	
RB0039	1-233-576-11	RES, CHIP NETWORK 100	(3216)	C6814	1-126-967-11	ELECT 47UF	20.00% 50V	D6816	8-719-081-98	DIODE MM3Z6V8T1		Q8900	8-729-010-29	TRANSISTOR MSD601-RST1	
RB0043	1-233-576-11	RES, CHIP NETWORK 100	(3216)	C6815	1-162-115-00	CERAMIC 330PF	10.00% 1KV	D6817	8-719-510-02	DIODE DINS4		Q8901	6-550-700-01	TRANSISTOR STP5NK40Z(033Y)	
RB0044	1-233-576-11	RES, CHIP NETWORK 100	(3216)	C6816	1-136-171-00	FILM 0.33UF	5.00% 50V	D6818	8-719-082-03	DIODE MM3Z15VT1		< RESISTOR >			
RB0045	1-233-576-11	RES, CHIP NETWORK 100	(3216)	C6817	1-136-497-81	FILM 0.1UF	5.00% 50V	D6819	8-719-082-03	DIODE MM3Z15VT1		R6800	1-216-837-11	METAL CHIP 22K 5%	1/10W
RB0050	1-233-576-11	RES, CHIP NETWORK 100	(3216)	C6818	1-162-115-00	CERAMIC 330PF	10.00% 1KV	D6820	8-719-081-97	DIODE MMDL914T1		R6801	1-216-849-11	METAL CHIP 220K 5%	1/10W
RB0051	1-233-576-11	RES, CHIP NETWORK 100	(3216)	C6819	1-165-953-11	FILM 47000PF	3% 800V	D6821	8-719-083-66	DIODE UDZSTE-1718B		R6802	1-216-841-11	METAL CHIP 47K 5%	1/10W
RB0052	1-233-576-11	RES, CHIP NETWORK 100	(3216)	C6820	1-136-189-00	MYLAR 0.1UF	10.00% 250V	D6822	8-719-081-97	DIODE MMDL914T1		R6803	1-216-837-11	METAL CHIP 22K 5%	1/10W
RB0053	1-233-576-11	RES, CHIP NETWORK 100	(3216)	C6821	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	D6823	1-535-143-71	LEAD, JUMPER (7.5MM)		R6804	1-247-843-11	CARBON 3.3K 5%	1/4W
RB0054	1-233-576-11	RES, CHIP NETWORK 100	(3216)	C6823	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	D6824	8-719-081-97	DIODE MMDL914T1		R6805	1-218-875-11	METAL CHIP 15K 0.5%	1/10W
RB0055	1-233-576-11	RES, CHIP NETWORK 100	(3216)	C6824	1-126-963-11	ELECT 4.7UF	20.00% 50V	D6825	8-719-081-97	DIODE MMDL914T1		R6807	1-218-845-11	METAL CHIP 820 0.5%	1/10W
RB3100	1-234-523-21	RES, CHIP NETWORK 0	(3216)	C6825	1-126-927-11	ELECT 2200UF	20.00% 10V	D6826	8-719-082-00	DIODE MM3Z4V7T1		R6808	1-202-933-61	FUSIBLE 0.1 10%	1/2W
RB3101	1-234-523-21	RES, CHIP NETWORK 0	(3216)	C6826	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	D6827	1-216-864-11	SHORT CHIP 0		R6809	1-218-874-11	METAL CHIP 13K 0.5%	1/10W
RB3800	1-239-621-11	NETWORK RESISTOR (CHIP) 22		C6827	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	D8900	8-719-948-45	DIODE ERA22-08		R6810	1-218-869-11	METAL CHIP 8.2K 0.5%	1/10W
RB3801	1-239-621-11	NETWORK RESISTOR (CHIP) 22		C6828	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V	D8901	8-719-991-33	DIODE 1SS133T-77		R6811	1-535-303-00	LEAD, JUMPER (5.0MM)	
RB3802	1-239-621-11	NETWORK RESISTOR (CHIP) 22		C6829	1-126-947-11	ELECT 47UF	20.00% 35V	< FERRITE BEAD >				R6812	1-245-478-21	METAL 470K 1%	1/4W
RB3803	1-239-621-11	NETWORK RESISTOR (CHIP) 22		C6831	1-126-966-11	ELECT 33UF	20.00% 50V	FB6800	1-410-397-21	FERRITE 1.1UH		R6813	1-245-478-21	METAL 470K 1%	1/4W
RB3804	1-239-621-11	NETWORK RESISTOR (CHIP) 22		C6832	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V	FB8900	1-410-397-21	FERRITE 1.1UH		R6814	1-218-912-11	METAL CHIP 510K 0.5%	1/10W
RB3805	1-239-621-11	NETWORK RESISTOR (CHIP) 22		C6833	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	< IC >				R6815	1-216-864-11	SHORT CHIP 0	
RB3806	1-239-621-11	NETWORK RESISTOR (CHIP) 22		C6834	1-126-964-11	ELECT 10UF	20.00% 50V	IC6800	8-759-586-17	IC TL1431CZ-AP		R6816	1-218-839-11	METAL CHIP 470 0.5%	1/10W
RB3807	1-239-621-11	NETWORK RESISTOR (CHIP) 22		C6835	1-165-607-11	FILM 10000PF	3% 800V	IC6801	8-759-700-07	IC NJM2903M		R6817	1-249-393-11	CARBON 10 5%	1/4W
RB3808	1-239-621-11	NETWORK RESISTOR (CHIP) 22		C6836	1-130-495-00	MYLAR 0.1UF	5.00% 50V	IC6802	8-759-670-30	IC MCZ3001D		R6818	1-216-803-11	METAL CHIP 33 5%	1/10W
< CRYSTAL >				C6837	1-130-471-00	MYLAR 0.001UF	5.00% 50V	IC6803	8-759-198-31	IC UPC1093J-1-T		R6819	1-218-823-11	METAL CHIP 100 0.5%	1/10W
X0001	1-567-162-00	OSCILLATOR, CRYSTAL		C6838	1-130-495-00	MYLAR 0.1UF	5.00% 50V	IC6804	8-759-701-01	IC NJM2904M		R6820	1-216-833-11	METAL CHIP 10K 5%	1/10W
X3100	1-781-946-21	VIBRATOR, CRYSTAL		C6839	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	< COIL >				R6821	1-216-837-11	METAL CHIP 22K 5%	1/10W
X3300	1-781-946-21	VIBRATOR, CRYSTAL		C6840	1-165-319-11	CERAMIC CHIP 0.1UF	50V	L6800	1-428-950-31	INDUCTOR 125UH		R6823	1-249-393-11	CARBON 10 5%	1/4W
X3400	1-795-058-21	VIBRATOR, CERAMIC		C8900	1-162-129-00	CERAMIC 150PF	10.00% 2KV	L6801	1-412-520-11	INDUCTOR 3.9UH		R6824	1-218-897-11	METAL CHIP 120K 0.5%	1/10W
X3800	1-767-127-11	VIBRATOR, CERAMIC		C8901	1-162-131-11	CERAMIC 220PF	10.00% 2KV	L6802	1-412-520-11	INDUCTOR 3.9UH		R6825	1-216-833-11	METAL CHIP 10K 5%	1/10W
X3801	1-567-504-11	OSCILLATOR, CRYSTAL		C8902	1-129-898-00	FILM 0.0022UF	5.00% 630V	L8900	1-406-674-11	INDUCTOR 3.3MH		R6826	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
* A-1302-549-A D2 Board Complete				C8903	1-107-635-11	ELECT 4.7UF	20.00% 160V	< PHOTOCOUPLER >				R6829	1-245-494-21	METAL 2.2M 2%	1/4W
3-710-578-01	COVER, VOLUME, 6 MOLD			C8904	1-137-150-11	FILM 0.01UF	5.00% 100V	PH6800	6-600-187-01	PHOTO COUPLER PC123Y22JOOF		R6830	1-249-431-11	CARBON 15K 5%	1/4W
4-382-854-01	SCREW (M3X8), P, SW (+)			C8905	1-136-205-11	MYLAR 0.022UF	5.00% 630V	PH6801	6-600-187-01	PHOTO COUPLER PC123Y22JOOF		R6832	1-245-494-21	METAL 2.2M 2%	1/4W
< CAPACITOR >				< CONNECTOR >				< TRANSISTOR >				R6833	1-249-377-11	CARBON 0.47 5%	1/4W
C6800	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	CN6800	1-695-915-11	TAB (CONTACT)		Q6800	8-729-010-29	TRANSISTOR MSD601-RST1		R6834	1-243-979-21	METAL OXIDE 0.1 5%	2W
C6801	1-126-964-11	ELECT 10UF	20.00% 50V	CN6801	* 1-564-510-11	PLUG, CONNECTOR 7P		Q6801	8-729-010-29	TRANSISTOR MSD601-RST1		R6835	1-216-821-11	METAL CHIP 1K 5%	1/10W
C6802	1-126-964-11	ELECT 10UF	20.00% 50V	CN6802	1-817-917-11	PIN, CONNECTOR 3P		Q6802	6-550-526-11	TRANSISTOR 2SK2842(LBS2SONY)		R6836	1-216-864-11	SHORT CHIP 0	
C6803	1-126-960-11	ELECT 1UF	20.00% 50V	CN6803	* 1-564-510-11	PLUG, CONNECTOR 7P		Q6803	6-550-526-11	TRANSISTOR 2SK2842(LBS2SONY)		R6837	1-249-419-11	CARBON 1.5K 5%	1/4W
C6804	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	CN6804	1-695-915-11	TAB (CONTACT)		Q6804	8-729-010-05	TRANSISTOR MSB709-RT1		R6838	1-260-095-11	CARBON 470 5%	1/2W
C6805	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	CN6805	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		< DIODE >				R6839	1-216-833-11	METAL CHIP 10K 5%	1/10W
C6806	1-117-228-71	MYLAR 2.2UF	10.00% 450V	< DIODE >				Q6806	8-729-421-22	TRANSISTOR UN2211		R6840	1-218-847-11	METAL CHIP 1K 0.5%	1/10W
C6807	1-104-662-91	ELECT 22UF	20.00% 25V	D6800	8-719-069-56	DIODE UDZSTE-176.2B		Q6807	8-729-010-05	TRANSISTOR MSB709-RT1		R6841	1-218-855-11	METAL CHIP 2.2K 0.5%	1/10W
C6808	1-126-964-11	ELECT 10UF	20.00% 50V	D6802	8-719-081-97	DIODE MMDL914T1		Q6808	8-729-421-22	TRANSISTOR UN2211		R6842	1-218-857-11	METAL CHIP 2.7K 0.5%	1/10W
C6809	1-136-813-11	FILM 680PF	5.00% 100V	< DIODE >				Q6809	8-729-010-05	TRANSISTOR MSB709-RT1		R6843	1-216-863-11	METAL CHIP 3.3M 5%	1/10W
< CAPACITOR >				< DIODE >				< DIODE >				R6844	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
C6800	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	< DIODE >				< DIODE >				R6845	1-218-895-11	METAL CHIP 100K 0.5%	1/10W
C6801	1-126-964-11	ELECT 10UF	20.00% 50V	< DIODE >				< DIODE >				< DIODE >			
C6802	1-126-964-11	ELECT 10UF	20.00% 50V	< DIODE >				< DIODE >				< DIODE >			
C6803	1-126-960-11	ELECT 1UF	20.00% 50V	< DIODE >				< DIODE >				< DIODE >			
C6804	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	< DIODE >				< DIODE >				< DIODE >			
C6805	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	< DIODE >				< DIODE >				< DIODE >			
C6806	1-117-228-71	MYLAR 2.2UF	10.00% 450V	< DIODE >				< DIODE >				< DIODE >			
C6807	1-104-662-91	ELECT 22UF	20.00% 25V	< DIODE >				< DIODE >				< DIODE >			
C6808	1-126-964-11	ELECT 10UF	20.00% 50V	< DIODE >				< DIODE >				< DIODE >			
C6809	1-136-813-11	FILM 680PF	5.00% 100V	< DIODE >				< DIODE >				< DIODE >			

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

D2 MS

MS

REF.NO.	PART.NO	DESCRIPTION	REMARK
R6846	1-216-837-11	METAL CHIP 22K 5%	1/10W
R6848	1-216-853-11	METAL CHIP 470K 5%	1/10W
R6849	1-216-834-11	METAL CHIP 12K 5%	1/10W
R6852	1-216-809-11	METAL CHIP 100 5%	1/10W
R6853	1-216-833-11	METAL CHIP 10K 5%	1/10W
R6854	1-216-849-11	METAL CHIP 220K 5%	1/10W
R6855	1-216-797-11	METAL CHIP 10 5%	1/10W
R6857	1-216-841-11	METAL CHIP 47K 5%	1/10W
R6858	1-216-837-11	METAL CHIP 22K 5%	1/10W
R6859	1-216-841-11	METAL CHIP 47K 5%	1/10W
R6860	1-216-821-11	METAL CHIP 1K 5%	1/10W
R6861	1-215-485-00	METAL 470K 1%	1/4W
R6862	1-216-841-11	METAL CHIP 47K 5%	1/10W
R6863	1-218-853-11	METAL CHIP 1.8K 0.5%	1/10W
R6865	1-249-411-11	CARBON 330 5%	1/4W
R6866	1-219-749-51	METAL 10K 5%	1/2W
R6867	1-215-485-00	METAL 470K 1%	1/4W
R6869	1-218-865-11	METAL CHIP 5.6K 0.5%	1/10W
R6870	1-219-750-91	METAL 22K 5%	1/2W
R6871	1-216-845-11	METAL CHIP 100K 5%	1/10W
R6873	1-218-887-11	METAL CHIP 47K 0.5%	1/10W
R6874	1-218-895-11	METAL CHIP 100K 0.5%	1/10W
R6875	1-216-821-11	METAL CHIP 1K 5%	1/10W
R6877	1-215-433-00	METAL 3.3K 1%	1/4W
R6878	1-215-447-00	METAL 12K 1%	1/4W
R6879	1-215-447-00	METAL 12K 1%	1/4W
R6880	1-215-447-00	METAL 12K 1%	1/4W
R6881	1-215-447-00	METAL 12K 1%	1/4W
R6883	1-218-847-11	METAL CHIP 1K 0.5%	1/10W
R6884	1-216-821-11	METAL CHIP 1K 5%	1/10W
R8900	1-243-618-21	METAL OXIDE 10K 5%	3W
R8901	1-260-123-11	CARBON 100K 5%	1/2W
R8902	1-243-619-21	METAL OXIDE 12K 5%	3W
R8903	1-243-619-21	METAL OXIDE 12K 5%	3W
R8904	1-249-429-11	CARBON 10K 5%	1/4W
R8905	1-243-619-21	METAL OXIDE 12K 5%	3W
R8906	1-243-618-21	METAL OXIDE 10K 5%	3W
R8907	1-260-123-11	CARBON 100K 5%	1/2W
R8908	1-260-123-11	CARBON 100K 5%	1/2W
R8909	1-260-123-11	CARBON 100K 5%	1/2W
R8910	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R8911	1-216-821-11	METAL CHIP 1K 5%	1/10W
R8912	1-218-863-11	METAL CHIP 4.7K 0.5%	1/10W

< RESISTOR VARIABLE >

RV6801 1-225-627-91 RES, VAR, ADJ, CERMET 2K

< SPARK GAP >

SG6800 1-517-499-21 GAP, SPARK

REF.NO.	PART.NO	DESCRIPTION	REMARK
< TRANSFORMER >			
T6800	Δ 1-453-444-21	TRANSFORMER ASSY FLYBACK NX-6020//Z2B4	
T8900	1-437-690-11	TRANSFORMER, FERRITE (DFT)	
* A-1410-247-A MS Board Complete			
	1-500-051-11	FERRITE	0UH
< CAPACITOR >			
C13	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C14	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C16	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C17	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C18	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C19	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C20	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C21	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C22	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C23	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C24	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C25	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C26	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C27	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C28	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C29	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C30	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C31	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C32	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C33	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C34	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C35	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C36	1-126-187-11	ELECT CHIP 0.1UF	20.00% 50V
C37	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C38	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C39	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C40	1-124-778-00	ELECT CHIP 22UF	20.00% 6.3V
C41	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C42	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C43	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C44	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C45	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C46	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C47	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C66	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C67	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C68	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C69	1-162-928-11	CERAMIC CHIP 120PF	5.00% 50V
C70	1-164-392-11	CERAMIC CHIP 390PF	5.00% 50V
C71	1-164-739-11	CERAMIC CHIP 560PF	5.00% 50V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C72	1-162-928-11	CERAMIC CHIP 120PF	5.00% 50V
C73	1-164-392-11	CERAMIC CHIP 390PF	5.00% 50V
C74	1-164-739-11	CERAMIC CHIP 560PF	5.00% 50V
C75	1-162-928-11	CERAMIC CHIP 120PF	5.00% 50V
C76	1-164-392-11	CERAMIC CHIP 390PF	5.00% 50V
C77	1-164-739-11	CERAMIC CHIP 560PF	5.00% 50V
C78	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C79	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C80	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C81	1-162-909-11	CERAMIC CHIP 4PF	0.25PF 50V
C82	1-162-909-11	CERAMIC CHIP 4PF	0.25PF 50V
C84	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C85	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C86	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C89	1-124-778-00	ELECT CHIP 22UF	20.00% 6.3V
C90	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C91	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C92	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C93	1-124-778-00	ELECT CHIP 22UF	20.00% 6.3V
C94	1-124-778-00	ELECT CHIP 22UF	20.00% 6.3V
C97	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C99	1-162-916-11	CERAMIC CHIP 12PF	5.00% 50V
C100	1-162-916-11	CERAMIC CHIP 12PF	5.00% 50V
C110	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C111	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C112	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C113	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C115	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C116	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C169	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C174	1-124-778-00	ELECT CHIP 22UF	20.00% 6.3V
C175	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C176	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C177	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C178	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C179	1-165-884-91	CERAMIC CHIP 2.2UF	10% 6.3V
C180	1-165-884-91	CERAMIC CHIP 2.2UF	10% 6.3V
C181	1-165-884-91	CERAMIC CHIP 2.2UF	10% 6.3V
C182	1-165-884-91	CERAMIC CHIP 2.2UF	10% 6.3V
C201	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C202	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
< CONNECTOR >			
CN1	* 1-794-959-21	PIN, CONNECTOR (PWB, PRINT)20P	
CN3	* 1-816-402-12	CONNECTOR, MEMORY STICK	
< DIODE >			
D6	6-500-773-01	DIODE MRA4003T3	
D7	6-500-773-01	DIODE MRA4003T3	

REF.NO.	PART.NO	DESCRIPTION	REMARK
D8	6-500-773-01	DIODE MRA4003T3	
D11	8-719-058-71	DIODE LNJ208R8ARA	
D13	8-719-058-71	DIODE LNJ208R8ARA	
D14	8-719-083-58	DIODE UDZSTE-173.9B	
D15	8-719-083-58	DIODE UDZSTE-173.9B	
D16	8-719-083-58	DIODE UDZSTE-173.9B	
D17	8-719-083-58	DIODE UDZSTE-173.9B	
D20	8-719-421-69	DIODE MA133	
D21	8-719-421-69	DIODE MA133	
D22	8-719-421-69	DIODE MA133	
D23	8-719-421-69	DIODE MA133	
D026	8-719-069-60	DIODE UDZSTE-179.1B	
D027	8-719-069-60	DIODE UDZSTE-179.1B	
D028	8-719-069-60	DIODE UDZSTE-179.1B	
D029	8-719-069-60	DIODE UDZSTE-179.1B	
D030	8-719-069-60	DIODE UDZSTE-179.1B	
D031	8-719-069-60	DIODE UDZSTE-179.1B	
D032	8-719-066-11	DIODE 1PS184-115	
D033	6-500-028-01	DIODE MM329V1ST1	
< FERRITE BEAD >			
FB001	1-414-229-11	FERRITE	0UH
FB002	1-414-229-11	FERRITE	0UH
FB006	1-414-229-11	FERRITE	0UH
< FILTER >			
FL001	1-233-736-21	FILTER, EMI	
FL002	1-233-736-21	FILTER, EMI	
FL003	1-233-736-21	FILTER, EMI	
FL005	1-233-736-21	FILTER, EMI	
FL006	1-233-736-21	FILTER, EMI	
< IC >			
IC1	6-705-171-01	IC PNK1300EH	
IC3	6-702-511-01	IC MT48LC8M16A2TG-75-Y95W	
IC4	6-705-173-01	IC PCF85116-3T	
IC5	6-704-866-01	IC DS1233AZ-15	
IC8	8-759-657-99	IC AM29LV160DT-90EC	
IC11	6-705-172-01	IC P87LPC762BDH	
IC12	8-759-548-95	IC SN74LV00APWR	
IC15	6-705-170-01	IC SAA7129AH/V1	
< COIL >			
L1	1-469-525-91	INDUCTOR	10UH
L2	1-469-528-91	INDUCTOR	100UH
L4	1-216-864-11	SHORT CHIP	0
L5	1-469-525-91	INDUCTOR	10UH
L6	1-469-525-91	INDUCTOR	10UH
L7	1-469-528-91	INDUCTOR	100UH
L8	1-412-984-41	INDUCTOR	2.7UH

MS

MS

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
L9	1-412-984-41	INDUCTOR	2.7UH	R108	1-216-864-11	SHORT CHIP	0
L10	1-412-984-41	INDUCTOR	2.7UH	R109	1-216-813-11	METAL CHIP	220 5% 1/10W
L11	1-412-984-41	INDUCTOR	2.7UH	R110	1-218-285-11	METAL CHIP	75 5% 1/10W
L12	1-412-984-41	INDUCTOR	2.7UH	R111	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
L13	1-412-984-41	INDUCTOR	2.7UH	R114	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
L23	1-410-197-11	INDUCTOR	2.7UH	R115	1-216-797-11	METAL CHIP	10 5% 1/10W
< TRANSISTOR >				R116	1-216-797-11	METAL CHIP	10 5% 1/10W
Q2	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R117	1-218-285-11	METAL CHIP	75 5% 1/10W
Q3	1-801-806-11	TRANSISTOR DTC144EKA		R120	1-216-864-11	SHORT CHIP	0
Q4	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R121	1-216-864-11	SHORT CHIP	0
Q5	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R123	1-216-857-11	METAL CHIP	1M 5% 1/10W
< RESISTOR >				R124	1-216-864-11	SHORT CHIP	0
R17	1-216-864-11	SHORT CHIP	0	R126	1-216-864-11	SHORT CHIP	0
R18	1-216-864-11	SHORT CHIP	0	R128	1-216-864-11	SHORT CHIP	0
R19	1-216-833-11	METAL CHIP	10K 5% 1/10W	R138	1-216-801-11	METAL CHIP	22 5% 1/10W
R20	1-216-833-11	METAL CHIP	10K 5% 1/10W	R139	1-216-801-11	METAL CHIP	22 5% 1/10W
R21	1-216-833-11	METAL CHIP	10K 5% 1/10W	R141	1-216-801-11	METAL CHIP	22 5% 1/10W
R22	1-216-804-11	METAL CHIP	39 5% 1/10W	R173	1-216-803-11	METAL CHIP	33 5% 1/10W
R23	1-216-809-11	METAL CHIP	100 5% 1/10W	R175	1-216-803-11	METAL CHIP	33 5% 1/10W
R25	1-216-803-11	METAL CHIP	33 5% 1/10W	R176	1-216-803-11	METAL CHIP	33 5% 1/10W
R35	1-216-833-11	METAL CHIP	10K 5% 1/10W	R177	1-216-864-11	SHORT CHIP	0
R39	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R178	1-216-864-11	SHORT CHIP	0
R40	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R179	1-216-864-11	SHORT CHIP	0
R41	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R180	1-216-864-11	SHORT CHIP	0
R42	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R181	1-216-864-11	SHORT CHIP	0
R43	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R182	1-216-864-11	SHORT CHIP	0
R44	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R183	1-216-809-11	METAL CHIP	100 5% 1/10W
R45	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R185	1-216-833-11	METAL CHIP	10K 5% 1/10W
R46	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R186	1-216-801-11	METAL CHIP	22 5% 1/10W
R52	1-216-833-11	METAL CHIP	10K 5% 1/10W	R199	1-216-809-11	METAL CHIP	100 5% 1/10W
R54	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R222	1-216-864-11	SHORT CHIP	0
R55	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R223	1-216-864-11	SHORT CHIP	0
R57	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R224	1-216-864-11	SHORT CHIP	0
R58	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R228	1-216-845-11	METAL CHIP	100K 5% 1/10W
R59	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R229	1-216-821-11	METAL CHIP	1K 5% 1/10W
R62	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R230	1-216-833-11	METAL CHIP	10K 5% 1/10W
R63	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R231	1-216-821-11	METAL CHIP	1K 5% 1/10W
R64	1-216-864-11	SHORT CHIP	0	R350	1-216-864-11	SHORT CHIP	0
R65	1-216-864-11	SHORT CHIP	0	R351	1-216-864-11	SHORT CHIP	0
R68	1-216-864-11	SHORT CHIP	0	R400	1-216-809-11	METAL CHIP	100 5% 1/10W
R94	1-216-864-11	SHORT CHIP	0	R401	1-216-864-11	SHORT CHIP	0
R95	1-216-809-11	METAL CHIP	100 5% 1/10W	R402	1-216-864-11	SHORT CHIP	0
R96	1-216-809-11	METAL CHIP	100 5% 1/10W	R403	1-216-864-11	SHORT CHIP	0
R100	1-216-801-11	METAL CHIP	22 5% 1/10W	R405	1-216-864-11	SHORT CHIP	0
R103	1-216-821-11	METAL CHIP	1K 5% 1/10W	R459	1-216-864-11	SHORT CHIP	0
R104	1-218-285-11	METAL CHIP	75 5% 1/10W	R460	1-216-805-11	METAL CHIP	47 5% 1/10W
R107	1-216-864-11	SHORT CHIP	0	R461	1-216-864-11	SHORT CHIP	0
				R462	1-216-864-11	SHORT CHIP	0
				R463	1-216-864-11	SHORT CHIP	0
				R464	1-216-864-11	SHORT CHIP	0

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R468	1-216-864-11	SHORT CHIP	0	C2614	1-164-156-11	CERAMIC CHIP 0.1UF	25V
R469	1-216-864-11	SHORT CHIP	0	C2615	1-164-156-11	CERAMIC CHIP 0.1UF	25V
R470	1-216-864-11	SHORT CHIP	0	C2620	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
R478	1-216-864-11	SHORT CHIP	0	C2621	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
R479	1-216-864-11	SHORT CHIP	0	C2622	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
R480	1-216-864-11	SHORT CHIP	0	C2623	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
R485	1-216-864-11	SHORT CHIP	0	C2624	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
R487	1-216-864-11	SHORT CHIP	0	C2625	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
R488	1-216-864-11	SHORT CHIP	0	C2626	1-126-947-11	ELECT 47UF	20.00% 35V
R489	1-216-821-11	METAL CHIP	1K 5% 1/10W	C2627	1-126-947-11	ELECT 47UF	20.00% 35V
R491	1-216-805-11	METAL CHIP	47 5% 1/10W	C2632	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
< RESISTOR CHIP >				C2633	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
RB1	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C2634	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
RB2	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C2635	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
RB3	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C2636	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
RB8	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C2637	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
RB9	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C2638	1-126-947-11	ELECT 47UF	20.00% 35V
RB10	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C2639	1-126-947-11	ELECT 47UF	20.00% 35V
RB11	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C2655	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
RB12	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C2656	1-165-908-11	CERAMIC CHIP 1UF	10% 10V
RB13	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C2657	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
RB14	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C2658	1-164-156-11	CERAMIC CHIP 0.1UF	25V
RB15	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C2659	1-126-964-11	ELECT 10UF	20.00% 50V
RB16	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C2660	1-126-947-11	ELECT 47UF	20.00% 35V
RB17	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C3608	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
RB18	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C3609	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
RB19	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C3610	1-126-947-11	ELECT 47UF	20.00% 35V
RB20	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C3616	1-164-156-11	CERAMIC CHIP 0.1UF	25V
RB21	1-239-409-11	NETWORK RESISTOR (CHIP)	47	C3617	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
< CRYSTAL >				C3618	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
X1	1-813-136-11	QUARTZ CRYSTAL OSCILLATOR		C3619	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
X2	1-813-055-11	QUARTZ CRYSTAL UNIT		C3620	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
X3	1-813-137-11	QUARTZ CRYSTAL UNIT		C3621	1-164-156-11	CERAMIC CHIP 0.1UF	25V
< CAPACITOR >				C3622	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2604	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V	C3623	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C2605	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	C3624	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2606	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V	C3625	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C2607	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	C3626	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2608	1-165-908-11	CERAMIC CHIP 1UF	10% 10V	C3627	1-126-964-11	ELECT 10UF	20.00% 50V
C2609	1-165-908-11	CERAMIC CHIP 1UF	10% 10V	C3631	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C2610	1-126-947-11	ELECT 47UF	20.00% 35V	C3632	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2611	1-126-947-11	ELECT 47UF	20.00% 35V	C3634	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2612	1-125-837-91	CERAMIC CHIP 1UF	10% 6.3V	C3636	1-126-947-11	ELECT 47UF	20.00% 35V
C2613	1-125-837-91	CERAMIC CHIP 1UF	10% 6.3V	C3641	1-164-156-11	CERAMIC CHIP 0.1UF	25V
				C3642	1-164-156-11	CERAMIC CHIP 0.1UF	25V
				C3643	1-164-156-11	CERAMIC CHIP 0.1UF	25V
				C3644	1-164-156-11	CERAMIC CHIP 0.1UF	25V
				C3645	1-126-947-11	ELECT 47UF	20.00% 35V
				C3646	1-126-947-11	ELECT 47UF	20.00% 35V
				C3647	1-126-947-11	ELECT 47UF	20.00% 35V

* A-1415-658-A J Board Complete

REF.NO.	PART.NO	DESCRIPTION	REMARK
C3648	1-126-947-11	ELECT 47UF	20.00% 35V
C3649	1-162-915-11	CERAMIC CHIP 10PF	0.50PF 50V

< CONNECTOR >

CN3600	* 1-564-523-11	PLUG, CONNECTOR 8P	
CN3601	1-695-549-11	SOCKET, PIN 21P	
CN3602	1-695-549-11	SOCKET, PIN 21P	
CN3603	1-695-549-11	SOCKET, PIN 21P	
CN3604	1-817-114-11	CONNECTOR, BOARD TO BOARD 35P	

< DIODE >

D0600	8-719-069-55	DIODE UDZSTE-175.6B	
D2600	8-719-069-60	DIODE UDZSTE-179.1B	
D2601	8-719-069-60	DIODE UDZSTE-179.1B	
D2602	8-719-069-60	DIODE UDZSTE-179.1B	
D2603	8-719-069-60	DIODE UDZSTE-179.1B	

D2604	8-719-069-60	DIODE UDZSTE-179.1B	
D2605	8-719-069-60	DIODE UDZSTE-179.1B	
D2606	8-719-069-60	DIODE UDZSTE-179.1B	
D2607	8-719-069-60	DIODE UDZSTE-179.1B	
D2608	8-719-069-60	DIODE UDZSTE-179.1B	

D2609	8-719-069-60	DIODE UDZSTE-179.1B	
D2610	8-719-069-60	DIODE UDZSTE-179.1B	
D2611	8-719-069-60	DIODE UDZSTE-179.1B	
D3602	8-719-069-60	DIODE UDZSTE-179.1B	
D3606	8-719-069-60	DIODE UDZSTE-179.1B	

D3614	8-719-083-63	DIODE UDZSTE-1713B	
D3615	8-719-069-60	DIODE UDZSTE-179.1B	
D3616	8-719-069-60	DIODE UDZSTE-179.1B	
D3617	8-719-069-60	DIODE UDZSTE-179.1B	
D3621	8-719-083-63	DIODE UDZSTE-1713B	

D3622	8-719-069-55	DIODE UDZSTE-175.6B	
D3623	8-719-069-60	DIODE UDZSTE-179.1B	
D3624	8-719-069-60	DIODE UDZSTE-179.1B	
D3626	8-719-069-60	DIODE UDZSTE-179.1B	
D3627	8-719-083-63	DIODE UDZSTE-1713B	

D3628	8-719-083-63	DIODE UDZSTE-1713B	
D3629	8-719-069-60	DIODE UDZSTE-179.1B	
D3630	8-719-069-60	DIODE UDZSTE-179.1B	
D3631	8-719-069-55	DIODE UDZSTE-175.6B	
D3632	8-719-069-60	DIODE UDZSTE-179.1B	

D3633	8-719-069-60	DIODE UDZSTE-179.1B	
D3634	8-719-069-60	DIODE UDZSTE-179.1B	
D3635	8-719-069-60	DIODE UDZSTE-179.1B	

< FERRITE BEAD >

FB3611	1-414-760-21	FERRITE 0UH	
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< IC >

IC3600	8-752-096-83	IC CXA2149AQ-TL	
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REF.NO.	PART.NO	DESCRIPTION	REMARK
< COIL >			

L2602	1-414-928-21	INDUCTOR 1UH	
L3611	1-414-928-21	INDUCTOR 1UH	
L3612	1-414-928-21	INDUCTOR 1UH	
L3614	1-414-928-21	INDUCTOR 1UH	

< TRANSISTOR >

Q2602	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2603	8-729-010-29	TRANSISTOR MSD601-RST1	
Q2604	8-729-010-29	TRANSISTOR MSD601-RST1	
Q3656	8-729-010-29	TRANSISTOR MSD601-RST1	
Q3657	8-729-010-29	TRANSISTOR MSD601-RST1	

Q3658	8-729-010-29	TRANSISTOR MSD601-RST1	
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< RESISTOR >

JR2616	1-216-864-11	SHORT CHIP 0	
JR2617	1-216-864-11	SHORT CHIP 0	
JR2618	1-216-864-11	SHORT CHIP 0	
JR2628	1-216-864-11	SHORT CHIP 0	
JR3611	1-216-864-11	SHORT CHIP 0	

R0800	1-216-809-11	METAL CHIP 100 5%	1/10W
R0801	1-216-809-11	METAL CHIP 100 5%	1/10W
R0802	1-216-025-11	RES-CHIP 100 5%	1/10W
R2600	1-216-815-11	METAL CHIP 330 5%	1/10W
R2601	1-216-049-11	RES-CHIP 1K 5%	1/10W

R2602	1-216-815-11	METAL CHIP 330 5%	1/10W
R2603	1-216-049-11	RES-CHIP 1K 5%	1/10W
R2604	1-216-813-11	METAL CHIP 220 5%	1/10W
R2605	1-216-864-11	SHORT CHIP 0	
R2606	1-216-813-11	METAL CHIP 220 5%	1/10W

R2607	1-216-864-11	SHORT CHIP 0	
R2608	1-216-853-11	METAL CHIP 470K 5%	1/10W
R2609	1-216-853-11	METAL CHIP 470K 5%	1/10W
R2610	1-216-853-11	METAL CHIP 470K 5%	1/10W
R2611	1-216-853-11	METAL CHIP 470K 5%	1/10W

R2612	1-216-813-11	METAL CHIP 220 5%	1/10W
R2613	1-216-813-11	METAL CHIP 220 5%	1/10W
R2614	1-216-864-11	SHORT CHIP 0	
R2615	1-216-864-11	SHORT CHIP 0	
R2616	1-216-864-11	SHORT CHIP 0	

R2617	1-216-821-11	METAL CHIP 1K 5%	1/10W
R2618	1-216-864-11	SHORT CHIP 0	
R2619	1-216-821-11	METAL CHIP 1K 5%	1/10W
R2620	1-216-837-11	METAL CHIP 22K 5%	1/10W
R2621	1-216-837-11	METAL CHIP 22K 5%	1/10W

R2622	1-216-837-11	METAL CHIP 22K 5%	1/10W
R2623	1-216-837-11	METAL CHIP 22K 5%	1/10W
R2624	1-216-815-11	METAL CHIP 330 5%	1/10W
R2625	1-216-049-11	RES-CHIP 1K 5%	1/10W

REF.NO.	PART.NO	DESCRIPTION	REMARK
R2626	1-216-815-11	METAL CHIP 330 5%	1/10W
R2627	1-216-049-11	RES-CHIP 1K 5%	1/10W
R2628	1-216-864-11	SHORT CHIP 0	
R2630	1-216-864-11	SHORT CHIP 0	
R2632	1-216-853-11	METAL CHIP 470K 5%	1/10W

R2633	1-216-853-11	METAL CHIP 470K 5%	1/10W
R2634	1-216-853-11	METAL CHIP 470K 5%	1/10W
R2635	1-216-853-11	METAL CHIP 470K 5%	1/10W
R2636	1-216-815-11	METAL CHIP 330 5%	1/10W
R2637	1-216-049-11	RES-CHIP 1K 5%	1/10W

R2638	1-216-815-11	METAL CHIP 330 5%	1/10W
R2639	1-216-049-11	RES-CHIP 1K 5%	1/10W
R2640	1-216-813-11	METAL CHIP 220 5%	1/10W
R2642	1-216-813-11	METAL CHIP 220 5%	1/10W
R2644	1-216-853-11	METAL CHIP 470K 5%	1/10W

R2645	1-216-853-11	METAL CHIP 470K 5%	1/10W
R2646	1-216-853-11	METAL CHIP 470K 5%	1/10W
R2647	1-216-853-11	METAL CHIP 470K 5%	1/10W
R2648	1-216-821-11	METAL CHIP 1K 5%	1/10W
R2649	1-216-837-11	METAL CHIP 22K 5%	1/10W

R2650	1-216-837-11	METAL CHIP 22K 5%	1/10W
R3600	1-216-022-00	RES-CHIP 75 5%	1/10W
R3601	1-216-022-00	RES-CHIP 75 5%	1/10W
R3602	1-216-022-00	RES-CHIP 75 5%	1/10W
R3603	1-216-022-00	RES-CHIP 75 5%	1/10W

R3604	1-216-022-00	RES-CHIP 75 5%	1/10W
R3605	1-216-025-11	RES-CHIP 100 5%	1/10W
R3607	1-216-025-11	RES-CHIP 100 5%	1/10W
R3608	1-216-025-11	RES-CHIP 100 5%	1/10W
R3609	1-216-025-11	RES-CHIP 100 5%	1/10W

R3610	1-216-025-11	RES-CHIP 100 5%	1/10W
R3611	1-216-022-00	RES-CHIP 75 5%	1/10W
R3612	1-216-025-11	RES-CHIP 100 5%	1/10W
R3613	1-216-022-00	RES-CHIP 75 5%	1/10W
R3614	1-216-025-11	RES-CHIP 100 5%	1/10W

R3615	1-216-022-00	RES-CHIP 75 5%	1/10W
R3616	1-216-022-00	RES-CHIP 75 5%	1/10W
R3617	1-216-022-00	RES-CHIP 75 5%	1/10W
R3618	1-216-022-00	RES-CHIP 75 5%	1/10W
R3619	1-216-025-11	RES-CHIP 100 5%	1/10W

R3621	1-216-025-11	RES-CHIP 100 5%	1/10W
R3622	1-216-025-11	RES-CHIP 100 5%	1/10W
R3623	1-216-025-11	RES-CHIP 100 5%	1/10W
R3624	1-216-022-00	RES-CHIP 75 5%	1/10W
R3625	1-216-025-11	RES-CHIP 100 5%	1/10W

R3626	1-216-022-00	RES-CHIP 75 5%	1/10W
R3627	1-216-022-00	RES-CHIP 75 5%	1/10W
R3628	1-216-022-00	RES-CHIP 75 5%	1/10W
R3629	1-216-022-00	RES-CHIP 75 5%	1/10W
R3630	1-216-025-11	RES-CHIP 100 5%	1/10W

REF.NO.	PART.NO	DESCRIPTION	REMARK
R3631	1-216-809-11	METAL CHIP 100 5%	1/10W
R3632	1-216-809-11	METAL CHIP 100 5%	1/10W
R3634	1-216-022-00	RES-CHIP 75 5%	1/10W
R3635	1-216-025-11	RES-CHIP 100 5%	1/10W
R3636	1-216-025-11	RES-CHIP 100 5%	1/10W

R3637	1-216-022-00	RES-CHIP 75 5%	1/10W
R3638	1-216-025-11	RES-CHIP 100 5%	1/10W
R3639	1-216-843-11	METAL CHIP 68K 5%	1/10W
R3641	1-216-843-11	METAL CHIP 68K 5%	1/10W
R3643	1-218-885-11	METAL CHIP 39K 0.5%	1/10W

R3647	1-216-864-11	SHORT CHIP 0	
R3652	1-216-821-11	METAL CHIP 1K 5%	1/10W
R3653	1-216-841-11	METAL CHIP 47K 5%	1/10W
R3654	1-216-837-11	METAL CHIP 22K 5%	1/10W
R3655	1-216-837-11	METAL CHIP 22K 5%	1/10W

R3656	1-216-821-11	METAL CHIP 1K 5%	1/10W
R3657	1-216-841-11	METAL CHIP 47K 5%	1/10W
R3658	1-216-837-11	METAL CHIP 22K 5%	1/10W
R3659	1-216-821-11	METAL CHIP 1K 5%	1/10W
R3660	1-216-841-11	METAL CHIP 47K 5%	1/10W

R3661	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R3662	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R3663	1-216-805-11	METAL CHIP 47 5%	1/10W

* A-1415-659-A C Board Complete

* 4-102-022-01	PIN(30), WIRE
4-382-854-01	SCREW (M3X8), P, SW (+)

< CAPACITOR >

C7300	1-136-189-00	MYLAR 0.1UF	10.00% 250V
C7302	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C7303	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
C7306	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C7310	1-136-189-00	MYLAR 0.1UF	10.00% 250V

C7312	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C7313	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
C7316	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C7320	1-136-189-00	MYLAR 0.1UF	10.00% 250V
C7321	1-107-652-11	ELECT 10UF	20.00% 250V

C7322	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C7323	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
C7326	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C7330	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C7331	1-126-947-11	ELECT 47UF	20.00% 35V

C7332	1-126-947-11	ELECT 47UF	20.00% 35V
C7333	1-107-652-11	ELECT 10UF	20.00% 250V
C7334	1-107-649-11	ELECT 2.2UF	20.00% 250V
C7335	1-119-894-51	CERAMIC 2200PF	20.00% 250V
C7336	1-115-350-51	CERAMIC 0.0047UF	2KV

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

C

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
< CONNECTOR >				Q7322	8-729-200-17	TRANSISTOR 2SA1091-0	
CN7330	* 1-564-508-11	PLUG, CONNECTOR 5P		Q7330	8-729-010-05	TRANSISTOR MSB709-RT1	
CN7331	* 1-564-512-11	PLUG, CONNECTOR 9P		< RESISTOR >			
CN7332	1-695-915-11	TAB (CONTACT)		JR7303	1-216-864-11	SHORT CHIP	0
CN7333	1-695-915-11	TAB (CONTACT)		JR7313	1-216-864-11	SHORT CHIP	0
< DIODE >				JR7323	1-216-864-11	SHORT CHIP	0
D7300	8-719-901-83	DIODE 1SS83		R7300	1-216-821-11	METAL CHIP	1K 5% 1/10W
D7301	8-719-901-83	DIODE 1SS83		R7301	1-216-813-11	METAL CHIP	220 5% 1/10W
D7302	8-719-991-33	DIODE 1SS133T-77		R7302	1-216-814-11	METAL CHIP	270 5% 1/10W
D7303	8-719-901-83	DIODE 1SS83		R7303	1-216-813-11	METAL CHIP	220 5% 1/10W
D7304	8-719-083-83	DIODE UDZS-TE17-15B		R7304	1-216-813-11	METAL CHIP	220 5% 1/10W
D7310	8-719-901-83	DIODE 1SS83		R7306	1-216-864-11	SHORT CHIP	0
D7311	8-719-901-83	DIODE 1SS83		R7307	1-247-807-31	CARBON	100 5% 1/4W
D7312	8-719-991-33	DIODE 1SS133T-77		R7308	1-202-557-00	SOLID	220 20% 1/2W
D7313	8-719-901-83	DIODE 1SS83		R7310	1-216-821-11	METAL CHIP	1K 5% 1/10W
D7314	8-719-083-83	DIODE UDZS-TE17-15B		R7311	1-216-813-11	METAL CHIP	220 5% 1/10W
D7320	8-719-901-83	DIODE 1SS83		R7312	1-216-814-11	METAL CHIP	270 5% 1/10W
D7321	8-719-901-83	DIODE 1SS83		R7313	1-216-813-11	METAL CHIP	220 5% 1/10W
D7322	8-719-991-33	DIODE 1SS133T-77		R7314	1-216-813-11	METAL CHIP	220 5% 1/10W
D7323	8-719-901-83	DIODE 1SS83		R7316	1-216-864-11	SHORT CHIP	0
D7324	8-719-083-83	DIODE UDZS-TE17-15B		R7317	1-247-807-31	CARBON	100 5% 1/4W
D7330	8-719-109-68	DIODE RD3.6ESB1		R7318	1-202-557-00	SOLID	220 20% 1/2W
D7331	8-719-901-83	DIODE 1SS83		R7320	1-216-821-11	METAL CHIP	1K 5% 1/10W
< IC >				R7321	1-216-813-11	METAL CHIP	220 5% 1/10W
IC7300	6-704-806-01	IC TDA6118JF		R7322	1-216-814-11	METAL CHIP	270 5% 1/10W
IC7310	6-704-806-01	IC TDA6118JF		R7323	1-216-813-11	METAL CHIP	220 5% 1/10W
IC7320	6-704-806-01	IC TDA6118JF		R7324	1-216-813-11	METAL CHIP	220 5% 1/10W
< SOCKET >				R7326	1-216-864-11	SHORT CHIP	0
J7330	Δ 1-451-544-11	SOCKET, CRT		R7327	1-247-807-31	CARBON	100 5% 1/4W
< COIL >				R7328	1-202-557-00	SOLID	220 20% 1/2W
L7330	1-414-928-21	INDUCTOR	1UH	R7330	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
L7331	1-414-928-21	INDUCTOR	1UH	R7331	1-247-903-00	CARBON	1M 5% 1/4W
< PROTECTOR MODULE >				R7333	1-249-417-11	CARBON	1K 5% 1/4W
PS7332	Δ 1-532-637-00	IC LINK	1A 50V	R7334	1-249-417-11	CARBON	1K 5% 1/4W
< TRANSISTOR >				R7335	1-247-735-11	CARBON	47 5% 1/2W
Q7300	8-729-025-25	TRANSISTOR BF550		R7336	1-202-549-00	SOLID	100 20% 1/2W
Q7301	8-729-010-29	TRANSISTOR MSD601-RST1		R7337	1-202-549-00	SOLID	100 20% 1/2W
Q7302	8-729-200-17	TRANSISTOR 2SA1091-0		R7340	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
Q7310	8-729-025-25	TRANSISTOR BF550		R7350	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
Q7311	8-729-010-29	TRANSISTOR MSD601-RST1		R7360	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
Q7312	8-729-200-17	TRANSISTOR 2SA1091-0		R7361	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q7320	8-729-025-25	TRANSISTOR BF550		< RESISTOR VARIABLE >			
Q7321	8-729-010-29	TRANSISTOR MSD601-RST1		RV7330	1-241-656-11	RES, ADJ, METAL FILM 110M	

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

H5 F1 VM

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
* A-1415-661-A H5 Board Complete				* A-1415-662-A F1 Board Complete			
< CAPACITOR >				4-206-220-01	HOLDER, LED		
C2904	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	< CAPACITOR >			
C2906	1-126-960-11	ELECT 1UF	20.00% 50V	C0982	1-104-665-11	ELECT 100UF	20.00% 25V
C2907	1-126-960-11	ELECT 1UF	20.00% 50V	C0983	1-102-114-00	CERAMIC 470PF	10.00% 50V
C2931	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	C0984	1-102-129-00	CERAMIC 0.01UF	10.00% 50V
< CONNECTOR >				C6400	1-113-924-11	CERAMIC 0.0047UF	20.00% 250V
CN2900	1-779-947-11	TERMINAL BLOCK, S		< CONNECTOR >			
CN2911	* 1-766-281-11	PLUG, CONNECTOR 8P		CN0981	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN2912	* 1-564-510-11	PLUG, CONNECTOR 7P		CN6400	Δ * 1-580-843-11	PIN, CONNECTOR (POWER)	
< DIODE >				CN6401	Δ * 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
D0901	8-719-109-89	DIODE RD5.6ESB2		CN6403	1-695-915-11	TAB (CONTACT)	
D0908	8-719-109-89	DIODE RD5.6ESB2		< DIODE >			
< SOCKET >				D0981	8-719-109-89	DIODE RD5.6ESB2	
J2901	1-817-763-11	JACK		D0983	8-719-082-12	DIODE TLHK5190	
< RESISTOR >				< FUSE >			
R0901	1-216-864-11	SHORT CHIP	0	F6400	Δ 1-576-232-12	FUSE 5A 250V	
R0902	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	FB6400	Δ 1-533-725-11	FUSE HOLDER	
R0911	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	< IC >			
R0912	1-216-864-11	SHORT CHIP	0	IC0981	6-704-532-01	IC RPM7240-H5	
R0913	1-216-833-11	METAL CHIP	10K 5% 1/10W	< RESISTOR >			
R0914	1-216-833-11	METAL CHIP	10K 5% 1/10W	R0982	1-247-807-31	CARBON 100 5% 1/4W	
R2901	1-249-406-11	CARBON 120 5% 1/4W		R6400	Δ 1-202-719-00	SOLID 1M 10% 1/2W	
R2902	1-249-406-11	CARBON 120 5% 1/4W		< SWITCH >			
R2903	1-249-406-11	CARBON 120 5% 1/4W		S6400	Δ 1-571-433-21	SWITCH, PUSH (AC POWER)	
R2904	1-249-406-11	CARBON 120 5% 1/4W		< VARISTOR >			
R2909	1-216-853-11	METAL CHIP 470K 5% 1/10W		VB6400	Δ 1-804-995-11	VARISTOR	
R2910	1-216-853-11	METAL CHIP 470K 5% 1/10W		* A-1415-660-A VM Board Complete			
R2917	1-216-821-11	METAL CHIP 1K 5% 1/10W		4-382-854-01	SCREW (M3X8), P, SW (+)		
R2918	1-216-821-11	METAL CHIP 1K 5% 1/10W		< CAPACITOR >			
< SWITCH >				C9401	1-126-947-11	ELECT 47UF	20.00% 35V
S0900	1-692-431-21	SWITCH, TACTILE		C9402	1-164-156-11	CERAMIC CHIP 0.1UF	25V
S0901	1-692-431-21	SWITCH, TACTILE		C9403	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
S0902	1-692-431-21	SWITCH, TACTILE		C9404	1-107-636-11	ELECT 10UF	20.00% 160V
S0903	1-692-431-21	SWITCH, TACTILE		C9406	1-161-830-00	CERAMIC 0.0047UF	500V
S0904	1-692-431-21	SWITCH, TACTILE		C9407	1-164-156-11	CERAMIC CHIP 0.1UF	25V
S0905	1-692-431-21	SWITCH, TACTILE		C9408	1-126-964-11	ELECT 10UF	20.00% 50V



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C9409	1-107-636-11	ELECT 10UF	20.00% 160V	R9418	1-249-393-11	CARBON 10 5% 1/4W	
C9410	1-137-528-11	MYLAR 0.1UF	10.00% 250V	R9419	1-216-839-11	METAL CHIP 33K 5% 1/10W	
C9411	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	R9420	1-216-821-11	METAL CHIP 1K 5% 1/10W	
C9412	1-137-528-11	MYLAR 0.1UF	10.00% 250V	R9421	1-216-801-11	METAL CHIP 22 5% 1/10W	
C9413	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	R9422	1-216-801-11	METAL CHIP 22 5% 1/10W	
C9414	1-117-450-11	MYLAR 0.47UF	10.00% 250V	R9423	1-216-821-11	METAL CHIP 1K 5% 1/10W	
< CONNECTOR >				R9424	1-216-839-11	METAL CHIP 33K 5% 1/10W	
CN9401	* 1-564-510-11	PLUG, CONNECTOR 7P		R9425	1-243-572-21	METAL OXIDE 470 5% 2W	
CN9402	* 1-564-506-11	PLUG, CONNECTOR 3P		R9426	1-216-839-11	METAL CHIP 33K 5% 1/10W	
CN9403	* 1-770-747-11	CONNECTOR, BOARD TO BOARD 12P		R9427	1-216-839-11	METAL CHIP 33K 5% 1/10W	
< COIL >				R9429	1-216-821-11	METAL CHIP 1K 5% 1/10W	
L9401	1-414-928-21	INDUCTOR 1UH		R9430	1-216-809-11	METAL CHIP 100 5% 1/10W	
L9402	1-414-928-21	INDUCTOR 1UH		R9431	1-216-809-11	METAL CHIP 100 5% 1/10W	
< TRANSISTOR >				R9432	1-216-817-11	METAL CHIP 470 5% 1/10W	
Q9401	8-729-010-29	TRANSISTOR MSD601-RST1		R9433	1-216-817-11	METAL CHIP 470 5% 1/10W	
Q9402	8-729-010-29	TRANSISTOR MSD601-RST1					
Q9403	8-729-010-29	TRANSISTOR MSD601-RST1					
Q9404	8-729-010-05	TRANSISTOR MSB709-RT1					
Q9405	8-729-010-29	TRANSISTOR MSD601-RST1					
Q9406	8-729-010-05	TRANSISTOR MSB709-RT1					
Q9407	8-729-010-29	TRANSISTOR MSD601-RST1					
Q9408	8-729-010-05	TRANSISTOR MSB709-RT1					
Q9409	8-729-010-29	TRANSISTOR MSD601-RST1					
Q9410	8-729-010-05	TRANSISTOR MSB709-RT1					
Q9411	8-729-045-05	TRANSISTOR 2SA2005					
Q9412	8-729-045-04	TRANSISTOR 2SC5511					
Q9413	8-729-010-29	TRANSISTOR MSD601-RST1					
Q9414	8-729-010-05	TRANSISTOR MSB709-RT1					
< RESISTOR >							
R9401	1-249-381-11	CARBON 1 5% 1/4W					
R9402	1-216-820-11	METAL CHIP 820 5% 1/10W					
R9403	1-216-819-11	METAL CHIP 680 5% 1/10W					
R9404	1-216-834-11	METAL CHIP 12K 5% 1/10W					
R9405	1-216-839-11	METAL CHIP 33K 5% 1/10W					
R9406	1-216-805-11	METAL CHIP 47 5% 1/10W					
R9408	1-216-815-11	METAL CHIP 330 5% 1/10W					
R9409	1-216-805-11	METAL CHIP 47 5% 1/10W					
R9410	1-216-805-11	METAL CHIP 47 5% 1/10W					
R9411	1-249-393-11	CARBON 10 5% 1/4W					
R9412	1-249-393-11	CARBON 10 5% 1/4W					
R9413	1-249-393-11	CARBON 10 5% 1/4W					
R9414	1-249-393-11	CARBON 10 5% 1/4W					
R9415	1-249-393-11	CARBON 10 5% 1/4W					
R9416	1-249-393-11	CARBON 10 5% 1/4W					
R9417	1-249-393-11	CARBON 10 5% 1/4W					

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
MISCELLANEOUS							
Δ	1-571-433-21	SWITCH, PUSH (AC POWER)					
Δ	1-823-853-11	CORD, POWER					
	1-456-510-11	COIL, PFC CHOKE 48.5MMH					
	8-598-533-10	FRONT END BTF-EC411 (KV-32XL90E)					
	8-598-535-20	FRONT END BTF-EF411 (KV-32XL90B)					
Δ	1-453-444-21	TRANSFORMER ASSY, FLYBACK (NX-6020/Z2B4)					
	1-529-408-11	SPEAKER (4.2X24CM)					
	1-529-417-11	SPEAKER (8CM)					
Δ	1-451-480-22	DEFLECTION YOKE (Y32RVC2)					
	1-452-896-11	COIL, NA ROTATION (RT200)					
Δ	8-453-021-21	NECK ASSY, (NA-2919-M2)					
Δ	1-424-888-11	COIL, DEGAUSSING					
Δ	1-251-946-11	CAP ASSY, HIGH-VOLTAGE					
Δ	8-735-079-05	PICTURE TUBE (W76LLZ060X)					
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø					
	1-452-032-00	MAGNET, DISK; 10MM Ø					
ACCESSORIES AND PACKAGING MATERIALS							
	*4-055-672-01	BAG, PROTECTION					
	*4-102-523-01	INDIVIDUAL CARTON					
	4-102-526-11	INSTRUCTION MANUAL (GERMAN/FRENCH/ITALIAN/DUTCH) (KV-32XL90B)					
	4-102-526-21	INSTRUCTION MANUAL (GERMAN/GREEK/TURKISH) (KV-32XL90E)					
	4-102-526-31	INSTRUCTION MANUAL (ITALIAN) (KV-32XL90E)					
	4-102-526-41	INSTRUCTION MANUAL (DANISH/SPANISH/FINNISH/NORWEGIAN/PORTUGUESE/SWEDISH) (KV-32XL90E)					
REMOTE COMMANDER							
	1-478-231-11	COMMANDER, STANDARD (RM-942)					

TRACE

A new TV Repair Assistance Tool that combines ease of use and powerful PC software tools to allow you to save valuable time during many TV repairs.



The TRACE interface connects to the PC's serial port. It provides connection to the TV's I²C bus and can be provided with an InfraRed transmitter (optional).

The interface is powered by a standard 9 V PP3 battery for portable use, and can also be powered by an external 9V/25mA DC power supply.

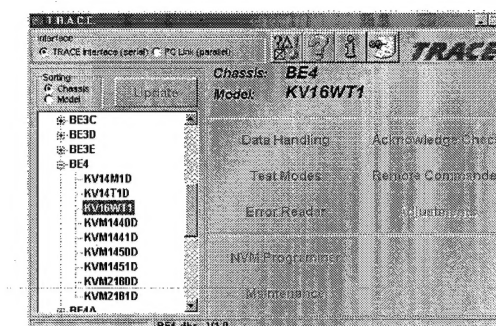
The TRACE software that is supplied with the interface allows you to:

- Read, restore and compare NVM contents via the I²C bus
- Acknowledge check of all I²C devices in the TV set
- Read Error Codes (emulation of the Error Reader tool)

With the optional IR Add-on kit, the following features can be added:

- Remote Commander emulation
- User programmable Functional Check through Infrared
- Fast and documented Test Mode setting of all Sony TV chassis

Additional features such as Adjustments and Troubleshooting are available in chassis-dependent software modules. Please contact your local Sony Service organisation for the latest information.



Note: For workshops already using the existing I²C Link parallel port interface (9-948-320-30), this software can be used as well, replacing the TV Data Handling software (9-948-340-50), but Error Reader and IR functions can only be accessed with the TRACE interface.

Partnumbers: TRACE Starter Kit (TRACE interface + software): 9-948-320-70
 TRACE Software (for users of the I²C Link interface): 9-948-340-80
 TRACE IR Add-on (IR interface + Remote Commander software): 9-948-320-80

PC requirements: IBM-compatible PC with operating system Windows95, Windows98, or WindowsNT*.

* WindowsNT only supported with TRACE interface